

---

# Energy Market Data Specification

## Standards Definition Document

---

Version: 0.1

Effective Date: N/A

## *Change History*

Version Number	Implementation Date	Reason for Change
0.1	N/A	Version agreed for publication Summer 2020

## *Contents Table*

<b>Paragraph</b>	<b>Heading</b>	<b>Page</b>
1	Introduction .....	4
2	Energy Market Data Specification Object Classes .....	4
3	Energy Market Data Specification Meta Data Model Relational Data Model Diagram.....	16
4	Data Access Matrix.....	16
5	Energy Market Data Item Catalogue.....	16
6	Energy Market Message Scenario Variant Catalogue.....	16

## 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 and obsolete industry codes, creating a common standard 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 industry codes<sup>1</sup>. The Energy Market Data Specification defines which permissible Physical Messaging Standards apply to each message.<sup>2</sup>
- 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.
- 1.4 This document provides an illustrative and logical view of the Data Specification, as such, it is intended that this document will be replaced by a number of other artefacts once the Code Manager has developed the physical design of the EMAR.
- 1.5 This document acts as a standards definition to support the initial version of the Data Specification prior to the development of the EMAR.
- 1.6 The EMAR will have the capability to make the Data Specification Meta Data Model more accessible which will remove the requirement for the illustrative text within this document. This document does not contain any additional data (or definition of data) beyond the data contained within the Data Spec version 17.00.00<sup>3</sup>.

## 2 Energy Market Data Specification Object Classes

- 2.1 This section provides a definition of each Object Class<sup>4</sup> within the Data Specification, the relationships between object classes within the Data Specification Meta Data Model and each Object Class' associated Data Elements<sup>5</sup>.
- 2.2 The Data Specification Meta Data Model is represented by a relational data model diagram, shown in Annex A.
- 2.3 Within this section components of the Data Specification are denoted by the following font colours:
  - (a) **Object Class**
  - (b) **Data Element**

---

<sup>1</sup> The Data Spec comprises data governed under the SEC, REC, BSC, UNC and DCUSA.

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

<sup>3</sup> Data Spec version 17.00.00 is published as a Microsoft Access database.

<sup>4</sup> The meaning of Object Class is defined in ISO 11179

<sup>5</sup> The meaning of Data Element is defined in ISO 11179

(c) Value

**Datatype Format**

2.4 An Energy Market Data Item will conform to one of the following Datatype Format objects:

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**

2.5 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.<sup>6</sup>

2.6 An Energy Market Data Item will conform to one of the following Datatype Format Rule objects:

Datatype Format Rule Name	Datatype Format Rule Definition	Related Datatype Format Name
high resolution datetime	A high resolution datetime format conforming to RTC3339.	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	string

<sup>6</sup> For example, the datatype format Boolean is related to two data type format rules, which support the requirements of different Physical Messaging Standards.

	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.	
integer	Only numeric characters permitted.	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	A general character string inclusive of all Edifact Level B characters and the _ and @ characters.	string
edifact level B gas metering variant	A general character string inclusive of all Edifact Level B characters and the _ character.	string

### Energy Market Data Item

2.7 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 total number of characters permissible for an Energy Market Data Item <sup>7</sup> .	Mandatory	

<sup>7</sup> This includes the minus sign or decimal point characters for numeric Datatype Format.

data item decimal length	The number of characters required to be present following a decimal point character.	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 2.3).
datatype format rule identifier	A unique identifier for a Datatype Format Rule applicable to a specific Energy Market Data Item (paragraph 2.6).	Mandatory	

### Data Item Enumeration

- 2.8 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 objects, then its permissible value domain shall be limited to those values only.

### Data Item Data Service Governance

- 2.9 An Energy Market Data Item may be related to one or more Data Item Data Service Governance objects.
- 2.10 A Data Item Data Service Governance object represents the Data Governance Type a Market Data Service performs in the context of a specific Energy Market Data Item.
- 2.11 A Market Data Service may perform the following Data Governance Type objects:

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.
meta data owner	The relevant Energy Code (e.g. the BSC, REC 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 as described in the Change Management Schedule.

- 2.12 For an instance of an **Energy Market Data Item** related to a **Data Item Data Service Governance**, which identifies the REC as the **Meta Data Owner**, there must also be one or more relationships between an **Energy Market Data Item** and a **Data Item Data Service Governance** which identifies a **Market Data Service** performing the role of **Data Master**.

### Energy Market Message

- 2.13 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 2.14).
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 2.14).
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 2.14).
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 2.14).
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	



### Permissible Message Means

2.14 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** objects 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) <sup>8</sup>	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 <sup>9</sup>	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 <sup>10</sup>	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	SDEP Physical Message Standard <sup>11</sup>	SDEP

<sup>8</sup> This can be accessed via the DTS Portal.

<sup>9</sup> This is currently provisioned via the Landmark Central Switching Development Portal.

<sup>10</sup> This can be accessed via the Xoserve website.

<sup>11</sup> To be developed by the service provider as a level 3 REC document

	Scenario Variant defined within the Energy Market Data Specification.		
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 Xoserve; and the specification of each related Energy Market Scenario Variant defined within the Energy Market Data Specification.	GES Physical Message Standard <sup>12</sup>	GES API
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 <sup>13</sup>	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

### Energy Market Message Scenario Variant

2.15 An Energy Market Message will be related to one or more Energy Market Message Scenario Variant objects. An Energy Market Message Scenario Variant will define the structure of a

<sup>12</sup> To be developed by the service provider as a level 3 REC document

<sup>13</sup> To be developed by the service provider as a level 3 REC document

message sent between two **Market Data Service** objects under specific conditions or as the result of events which occur within certain **Energy Market Scenario** objects.

- 2.16 **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 Collection** objects (paragraph 2.18) and **Message Scenario Variant Data Item** objects (paragraph 2.21).
- 2.17 An **Energy Market Message Scenario Variant** identifies a structured data communication undertaken between two **Market Data Service** objects, 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 Data Service** represented within the Data Specification:

market data service abbreviation	market data service name	Market participant name
BSC	Balancing and Settlement Code Company Data Service	Balancing and Settlement Code Company
CDSP	Gas Central Data Service	Gas Central Data Services Provider
CFD Generator Invoice Backing Data	Contract for Difference Generator Invoice Backing Data Data Service	Contract for Difference Generator Invoice Backing Data
CFD Settlement Services Provider	Contract for Difference Settlement Services Provider Data Service	Contract for Difference Settlement Services Provider
CM Settlement Services Provider	Capacity Management Settlement Services Provider Data Service	CM Settlement Services Provider
CSS	Central Switching Service	Central Switching Service Provider
DCC	Smart Data Service	Smart Data Service Provider
DCUSA	Distribution Connection and Use of System Agreement Company Data Service	Distribution Connection and Use of System Agreement Company
Distributor	Distribution Network Operator Data Service	Distribution Network Operator
EES	Electricity Enquiry Service	Electricity Enquiry Service Provider
Electricity MAP	Electricity Meter Asset Provider Data Service	Electricity Meter Asset Provider
Electricity PPMIP	Electricity Pre-Payment Metering Infrastructure Data Service	Electricity Pre-Payment Metering Infrastructure Provider
Electricity Supplier	Electricity Supplier Data Service	Electricity Supplier
ERDA	Electricity Retail Data Service	Electricity Retail Data Agent
Gas MAP	Gas Meter Asset Provider Data Service	Gas Meter Asset Provider
Gas PPMIP	Gas Prepayment Metering Infrastructure Data Service	Gas Prepayment Metering Infrastructure Provider

Gas Shipper	Gas Shipper Data Service	Gas Shipper
Gas Supplier	Gas Supplier Data Service	Gas Supplier
GD Licensee	Green Deal Licensee Data Service	Green Deal Licensee
GD Provider	Green Deal Provider Data Service	Green Deal Provider
GD Remittance Processor	Green Deal Remittance Processor Data Service	Green Deal Remittance Processor
GDCC	Green Deal Central Charge Database Data Service	Green Deal Central Charge Database Provider
GES	Gas Enquiry Service	Gas Enquiry Services Provider
GRDS	Gas Retail Data Service	Gas Retail Data Agent
Grid Operator	Grid Operator Data Service	Grid Operator
GRS Operator	Generation Registration Service Operator Data Service	GRS Operator
GT	Gas Transporter Data Service	Gas Transporter
HHDA	Half Hourly Data Aggregator Data Service	Half Hourly Data Aggregator
HHDC	Half Hourly Data Collector Data Service	Half Hourly Data Collector
MAM	Gas Meter Equipment Manager Data Service	Gas Meter Equipment Manager
MDDA	Market Domain Data Service	Market Domain Data Agent
MOA	Electricity Meter Equipment Manager Data Service	Electricity Meter Equipment Manager
NHHDA	Non-Half Hourly Data Aggregator Data Service	Non-Half Hourly Data Aggregator
NHHDC	Non-Half Hourly Data Collector Data Service	Non-Half Hourly Data Collector
NHHDR	Non-Half Hourly Data Retriever Data Service	Non-Half Hourly Data Retriever
REC	Retail Energy Code Company Data Service	Retail Energy Code Company
RPS	Revenue Protection Data Service	Revenue Protection Agent
SEC	Smart Energy Code Company Data Service	Smart Energy Code Company
SFIC	Supply Fault Information Centre Data Service	Supply Fault Information Centre Agent
SMRS	Supplier Meter Registration Service	Supplier Meter Registration Agent
SVAA	Supplier Volume Aggregation Agent	Supplier Volume Aggregation Agent
Teleswitch Agent	Teleswitch Data Service	Teleswitch Agent
TPI	Third Party Intermediary Data Service	Price Comparison Website Operator
UMSO	Unmetered Supplies Operator Data Service	Unmetered Supplies Operator
UNC	Uniform Network Code Data Service	Uniform Network Code

2.18 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	
energy market message scenario identifier	A unique identifier for the related Energy Market Scenario.	Mandatory	
source market data service identifier	The unique identifier of the Market Data Service which sends an Energy Market Message.	Mandatory	
target market data service identifier	The unique identifier of the Market Data Service which receives an Energy Market Message.	Mandatory	
message meta data owner identifier	The unique identifier of the data service which is responsible for the meta data ownership of an Energy Market Message. Only the REC, BSC, SEC, DCUSA or UNC Market Data Service can be assigned as a Message Meta Data Owner.	Mandatory	

### Message Scenario Variant Collection

- 2.19 An **Energy Market Message Scenario Variant** is related to one or more **Message Scenario Variant Collection** objects. The physical requirements related to the structure and implementation of a **Message Scenario Variant Collection**<sup>14</sup> within a physical message is detailed within each Service Providers Physical Message Standard.
- 2.20 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**.

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

2.21 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 name	A meaningful title for a Message Scenario Variant Collection.	Mandatory	
message scenario variant collection definition	A description of a Message Scenario Variant Collection.	Conditional	If required to aid understanding of the purpose of the collection.
parent message scenario variant collection identifier	The unique identifier of the Message Scenario Variant Collection which is the hierarchical parent to this Message Scenario Variant Collection within the same Energy Market Message Scenario Variant.	Conditional	A Message Scenario Variant Collection will not have a parent if it is at the top of a hierarchy of collections within an Energy Market Scenario Variant.
message scenario variant collection sequence number	The sequence in which a Message Scenario Variant Collection must be located within a physical message structure.	Conditional	Required for Message Means which utilise delimited file structures.
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, optional or conditional within an Energy Market Scenario Variant.	Mandatory	
message collection conditional requirement rule	Describes the condition under which 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	
data item collection identifier	The unique identifier of a Data Item Collection. A Data Item Collection can be related to one or more Energy Market Message Scenario Variant Collections. The data elements of a Data Item Collection include those attributes which are common for collections across messages such as UKLink Record Name or DTS Group Identifier.	Conditional	Required for Message Means which utilise delimited file structures.

### Message Scenario Variant Data Item

- 2.22 A **Market Scenario Variant Collection** is related to one or more **Message Scenario Variant Data Item** objects. 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 Rule** objects can be related to a **Message Scenario Variant Data Item**.

### Data Item Collection

- 2.23 A **Message Scenario Variant Data Item** is related to a **Data Item Collection**. A **Data Item Collection** specifies the context of a data item within a collection. For example, a data element of a **Data Item Collection** is **data item sequence number** (the sequence it appears within a line in a delimited file). The relationship between object classes is represented within Paragraph 3.1.

### Variant Data Item Requirement Type

- 2.24 A **Message Scenario Variant Data Item** is related to a single **Variant Data Item Requirement Type** which denotes if it is mandatory within a message, present within a message with a null value (dependent on the requirements of the physical message means), not present or conditional based on a rule. Each **Variant Data Item Requirement Type** object value is specified in the table below:

data item requirement type name	data item requirement type definition
mandatory	An Energy Market Data Item value must not be null for a Message Scenario Variant Data Item.

conditional rule	A Conditional Rule determines if a Variant Data Item is mandatory within a Message Scenario Variant Data Item.
optional	A Data Item value can be null or not null within a Message Scenario Variant Data Item.
null	A Data Item value must be null within a Message Scenario Variant Data Item.
not required	A Data Item value should be null within a Message Scenario Variant Data Item.
not present	The Data Item must be not present within the Message Scenario Variant

### Variant Data Item Value Rule

- 2.25 A Message Scenario Variant Data Item may be related to one or more Variant Data Item Value Rule objects. 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.

### Message Scenario Variant Enumeration

- 2.26 A Message Scenario Variant Data Item may be related to one or more Message Scenario Variant Enumeration objects. 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 in PDF file format within Annex A.

## 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 Service. 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.

## 7 Data Spec Microsoft Access Database

- 7.1 For user research purposes the Data Specification is provided in Microsoft Access file format in Annex E.



