

European Network of Transmission System Operators for Electricity

# RESOURCE CAPACITY REGISTRY TOOL IMPLEMENTATION GUIDE

2021-06-01

APPROVED DOCUMENT VERSION 1.1

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Resource Capacity Registry Tool IG Version 1.1

European Network of Transmission System Operators for Electricity





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- 19 The force of the following words is modified by the requirement level of the document in which 20 they are used.
- SHALL: This word, or the terms "REQUIRED" or "MUST", means that the definition is an absolute requirement of the specification.
- SHALL NOT: This phrase, or the phrase "MUST NOT", means that the definition is an absolute prohibition of the specification.
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- MAY: This word, or the adjective "OPTIONAL", means that an item is truly optional.



# **Revision History**

Version	Release	Date	Paragraph	Comments
0	1	2020-09-16		First draft of the Resource Capacity Registry Tool Implementation guide.
0	2	2020-11-25		Comments from CIM EG were considered.
1	0	2020-12-15		Approved by MC.
1	1	2021-06-01		Some amendments were considered during the implementation of the registry.
				<ul> <li>CO2 emissions and metering point now are optional</li> </ul>
				<ul> <li>Market type codes (A08: Market wide resource capacity mechanism, A09: Strategic reserve resource capacity mechanism, A10: Other resource capacity mechanism) are also optional for allocated entry capacity.</li> </ul>
				<ul> <li>Added two optional initial registration dateAndOrTime a and registration_DateAndOrTime attributes linked to Timeseries</li> </ul>
				<ul> <li>Market participation_marketObjectStatus.status attribute was splitted in PrimaryMarketParticipation and secondaryMarket particpation status attributes.</li> </ul>
				<ul> <li>An optional ClearanceNumber_Name attribute was added to the Timeseries</li> </ul>
				<ul> <li>Existing PSRType attribute was renamed to technology_PSRType</li> </ul>
				<ul> <li>A new Fuel class was linked to the Unit class with cardinality 0*</li> </ul>
				<ul> <li>meteringPoint_AggregateNode.mRID was replaced by MarketEvaluationPoint.mRID</li> </ul>
				<ul> <li>Adjustments to align the dependency tables with the new attributes requested by the project.</li> </ul>
				Approved by MC.



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#### 93 **1 Scope**

- 94 The objective of the resource capacity registry tool implementation guide is to make it possible
- 95 for software vendors to develop an IT application for TSOs and other parties that allow them to 96 exchange information for the resource capacity registry tool process.

97 The implementation guide is one of the building blocks for using UML (Unified Modelling 98 Language) based techniques in defining processes and messages for interchange between 99 actors in the electrical industry in Europe.

This guide provides a standard for enabling a uniform layout for exchanging resource capacity mechanism unit data between different parties and the resource capacity registry tool. The implementation guide is developed for the harmonisation of the underlying data exchange process. The implementation guide refers to information models based on the European style market profile (ESMP), IEC 62325-351. In particular, the IEC 62325-450 methodology was applied to develop the contextual and assembly models

#### 106 2 References

#### 107 2.1 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

- IEC 62325-301:2018, Framework for energy market communications Part 301:
   Common information model (CIM) extensions for markets;
- IEC 62325-351:2016, Framework for energy market communications Part 351: CIM European market model exchange profile;
- 116
   <u>IEC 62325-450:2013, Framework for energy market communications Part 450: Profile</u> and context modelling rules;
- 118 IEC 62325-451-1:2017, Framework for energy market communications Part 451-1: Acknowledgement business process and contextual model for CIM European market;
- 120 IEC 62325-451-5, Framework for energy market communications Part 451-5: Problem statement and status request business processes, contextual and assembly models for European market;
- 123

#### 124 2.2 Other references

- 125 The Harmonised Electricity Market Role Model (HRM);
- Resource Capacity Market Unit (RCMU) document UML model and schema.
- Article 26 of the Regulation (EU) 2019/943 of the European Parliament and of Council of 5 June 2019 on the internal market for electricity.
- Business requirements specification of the Capacity Registry Tool process approved by ENTSO-E Market Committee on July 10<sup>th</sup>, 2020
- 131



#### **Terms and definitions** 132 3

133 Delivery Period means the period set in the CM Contract during which the resource capacity obligation applies. [source: BRS] 134

135 Eligibility means the compliance with technical performance as required by the resource 136 capacity mechanism in which the RCMU (resource provider) intends to participate. [source: BRS1 137

- 138 Eligibility period means the period for which certain RCMU hold eligibility for specific CM. 139 [source: BRS]
- 140 Foreign Capacity means a resource capacity located in a Member State different from the 141 Member State applying the resource capacity mechanism. [source: BRS]

Market Information Aggregator (MIA) means a party that provides market related information 142 that has been compiled from the figures supplied by different actors in the market. This 143 144 information may also be published or distributed for general use. [source: HRM]

145 Maximum Entry Capacity means the maximum allowed foreign resource capacity (expressed 146 in MW) considered between two Member States that can participate in a resource capacity 147 mechanism during a certain Delivery Period. [source: BRS]

148 Measurement Point a location within the grid, a piece of equipment or an installation where 149 measurement of the flow of electricity is performed. The flow related to this measurement point 150 will be used to calculate the resource capacity delivered by the RCMU. The RCMU can be 151 assigned with multiple measurement points. [source: RCRT PG]

152 Member State (MS) is a state that is a member of the European Union. [source: BRS]

153 Party administrator means a party responsible for maintaining party characteristics for the 154 energy sector. [source: HRM]

- 155 Primary market is where RCMU resource entry capacity or resource capacity obligation is 156 determined for the first time. [source: RCRT PG]
- 157 **Registry User** means a person having access to the Registry. [source: BRS]

Resource Capacity Market Unit (RCMU) is the single unit or group of aggregated units used 158 by the resource provider to fulfil its capacity commitment and upon which availability is checked. 159 160 [source: BRS, defined as Capacity Market Unit (RCMU)]

161 Resource Capacity Mechanism (RCM) means a temporary measure to ensure the achievement of the necessary level of resource adequacy by remunerating resources for their 162 availability, excluding measures relating to ancillary services or congestion management. 163 164 [source: BRS, defined as capacity mechanism]

165 **Resource Capacity Mechanism Operator (RCMO)** is the party responsible to operate the resource capacity mechanism in a member state. It can either be the TSO or an independent 166 167 party. [source: ESMP SG. In BRS is known as Capacity Mechanism operator (CMO)]

**Resource Capacity Obligation** is resource provider's obligation to guarantee, during delivery 168 169 periods, readiness to deliver specified electrical power to the system through a resource 170 capacity market unit and to supply specified electrical power to the system during stress 171 periods. [source: RCRT PG, defined as capacity obligation]

172 **Resource Capacity Registry Tool (RCRT)** is a common digital platform that provides free, 173 continuous access for the resource providers and resource capacity mechanism's operators 174 from all Member States. Registry itself is open to all eligible resource providers, the systems 175 implementing resource capacity mechanisms and their transmission system operators, and maintained by ENTSO-E. [source: BRS] 176



178 Resource Entry Capacity means the resource capacity, expressed in MW, that can be 179 allocated to eligible foreign resource capacity (RCMU) for participation in a resource capacity 180 mechanism. Its total amount can never exceed the maximum resource entry capacity. [source: 181 BRS, defined as entry capacity]

182 **Resource Provider** means a role that manages a resource and provides 183 production/consumption schedules for it, if required. [source: HRM].

184 Secondary market is where RCMU resource entry capacity or resource capacity obligation is
 185 traded between two resource providers. [source: RCRT PG]

System Operator (SO) means a party responsible for operating, ensuring the maintenance of and, if necessary, developing the system in a given area and, where applicable, its interconnections with other systems, and for ensuring the long-term ability of the system to meet reasonable demands for the distribution or transmission of electricity. [source: HRM]



# 191 4 The Resource Capacity Registry Tool Business Process

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193 Resource capacity registry tool design is based on Methodologies for cross-border participation 194 in resource capacity mechanisms, common rules and terms of reference in accordance with 195 Article 26 of the Regulation (EU) 2019/943 of the European Parliament and of the Council of 5 196 June 2019 on the internal market for electricity.

197 Following processes are enabled by resource capacity registry tool, followed by respective e-198 mail notifications:

- Basic RCMU registration
- RCMU eligibility confirmation
- RCMU allocated entry capacity submission
- RCMU capacity obligation submission
  - RCMU data retrieval from resource capacity registry tool database
  - Maximum resource entry capacity announcement
  - Report generation for ACER and NRAs
    - System stress event announcement
- RCMU data management

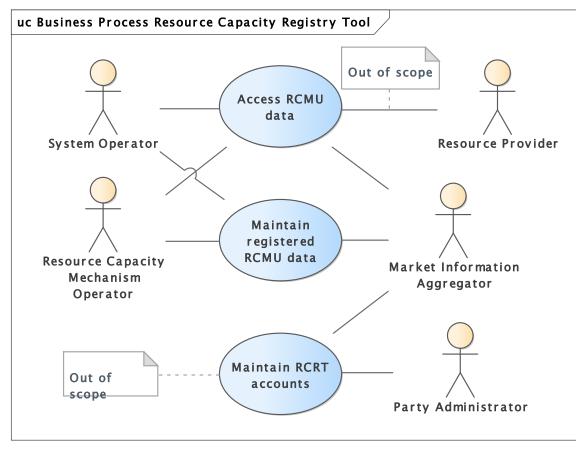
208 209 Management of data stored within resource capacity registry database can be performed either 210 via resource capacity registry tool GUI or by uploading relevant XML files. Either way, data 211 transfer is handled by data flow gateway where appropriate technical validation takes place 212 prior to business validation inside resource capacity registry tool itself.

Active registry users are TSOs, RCMOs and administrators (ENTSO-E), while resource provider
has passive role and is able to see its own data only.

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#### 218 4.1 Use cases



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Table 1 gives a list of roles involved in the Resource Capacity Registry business process.

Figure 1 - Use Case diagram

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	Table 1 - Role labels and descriptions	
Role Label	Role Description	
System Operator (SO)	Within this business process, SO is in charge of registering RCMU data in the registry. Apart from that he is able to access and retrieve RCMU data from the registry. This role is performed by the TSO.	
Resource Capacity Mechanism Operator (RCMO)	Within this business process, RCMO accesses and retrieves RCMU data from the registry. RCMO in whose the RCMU intends to participate has to review the application and may also ask for additional requirements RCMO in whose the RCMU intends to participate has to enter the RCM for which the RCMU is eligible to participate along with its eligibility period. Finally, RCMO that is applying foreign resource capacity submits resource capacity obligations and delivery periods for each RCM. The role is performed by the CMO.	
Market Information Aggregator (MIA)	MIA stores and administrates all the RCMU information. It also maintains the user accounts. This role is performed by the RCRT.	
Party Administrator	The party administrator is responsible for the maintenance of the accounts of the resource capacity registry tool. (Out of scope)	
Resource Provider	Within this business process is responsible for one or several RCMUs for the resource capacity mechanism processes. This role is performed by the resource capacity provider.	



# 227 Table 2 gives a list of use cases for the Resource Capacity Registry Tool.

228 229

	Table 2 – Res	ource Capacity Registry Tool use cases
Use case	Roles	Action descriptions and assertions
label	involved	
Maintain	SO, RCMO,	SO requests to the MIA to register the RCMU.
registered	MIA	The RCMO can request the MIA to add data (allocated entry
RCMU data		resource capacity data or resource capacity obligations data)
		to the registered RCMUs.
Access RCMU SO, RCMO,		SO and RCMO can also retrieve RCMU data from MIA. RP can
data	MIA, RP	only access data (in view mode) via user interface.
Maintain	MIA, Party	The RCRTA can request the creation of registry accounts or
RCRT	administrator	get the list of registry accounts from the MIA (out of scope of
accounts		this IG)

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#### 232 4.2 **Document exchange processes**

#### 4.2.1 General overview of sequence diagram 1/2 233

Next figures show a general sequence diagram of the document exchange processes. 234

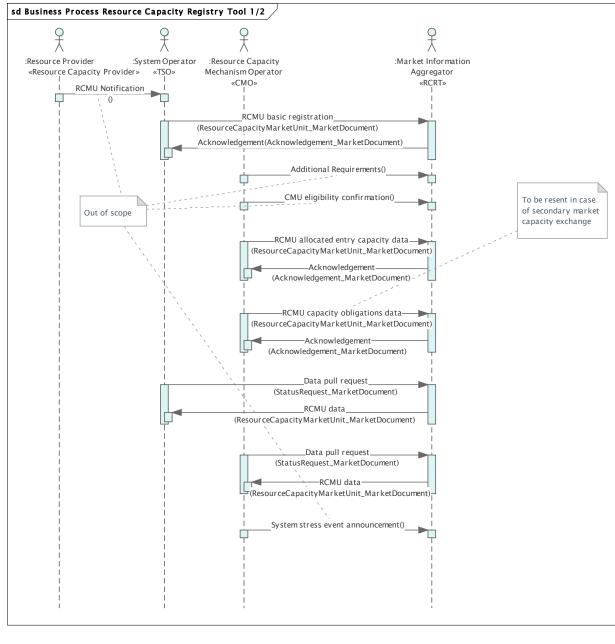


Figure 2 - Sequence diagram 1/2



The use cases 'Access RCMU data' and 'Maintain registered RCMU data' are supported by the following document exchanges:

#### 239 **4.2.1.1** Acknowledgement – Acknowledgement\_MarketDocument

All received documents must be acknowledged with an acknowledgment document, IEC 62325-451-1, in a syntactic and business/semantic way by the different parties.

# 242 4.2.1.2 RCMU notification – (out of scope)

In order for one of his RCMU to participate in a foreign resource capacity mechanism, the
 Resource Provider must initiate contact beforehand with the SO responsible of the area within
 which the RCMU is located. For each RCMU, the Resource Provider must deliver the following
 data:

- Unique identifier, preferably EIC-W code of the RCMU.
- Corporate credentials;
- Facility address;
- Resource Capacity and aggregation;
- Technology type and fuel;
- Metering points;
- Network operator defined with EIC-X code;
- RCMO of Member State where RCMU is located defined with EIC-X code;
- Additionally, following information must be included in registration request:
- List of XB Member States in whose RCMs RCMU wants to participate in.
- 259 Along with RCMU data, Resource Provider shall deliver its own data containing:
- EIC-X code;
- Full company name;
- Main notification email.
- 263

258

The concerned SO will then check that all the necessary data have been received and are correct. If not, it will inform the Resource Provider thank to the Main Notification Email. Main notification email is email to which capacity provider will receive notifications if it didn't request any account creation in the past. This is especially important in case RCMUs of resource capacity provider are registered for the first time

- 269 If everything is correct, the SO will perform the RCMU basic registration
- 270

# 271 4.2.1.3 RCMU Basic Registration – ResourceCapacityMarketUnit\_MarketDocument

After he received and checked all necessary data send by the Resource Provider, the SO will forward them to the resource capacity registry tool to perform the RCMU basic registration thanks to the ResourceCapacityMarketUnit\_MarketDocument (or manually via Registry web UI).

The RCRT will then perform technical and business validation, evaluating if the RCMU basic registration is correct. A notification e-mail will then be sent to the Resource Provider and the RCMO in whose the RCMU intend to participate with the result.

279

# 280 **4.2.1.4 RCMU eligibility confirmation (Out of scope)**

The RCMO in whose the RCMU intends to participate has to review the application and may also ask for additional requirements.

283

If additional requirements are necessary, a notification with additional requirements will be sent to check responsible party. This responsible party has to perform specific CMU data validation against requirements set by RCMO in whose RCMU wants to participate in, in order to grant eligibility for RCMU. This party can be resource provider, SO where CMU is located or RCMO where CMU is located. Afterwards check responsible party must sent additional requirements verification results back to RCRT.



291 Once the verification have been performed by the RCMO, the RCRT is updated by the SO or 292 RCMO and a notification email is sent to the RCMO who asked for the additional requirement. 293

In any case, the RCMO in whose the RCMU intends to participate then has to enter the RCM for which the RCMU is eligible to participate along with its eligibility period. Following this, a notification email is send to all subscribed parties.

297

# 2984.2.1.5RCMU allocated entry capacity data –299ResourceCapacityMarketUnit\_MarketDocument

300 Allocated resource entry capacity market activities are out of the Registry scope.

Once the process of allocating resource entry capacity for foreign resource capacity is closed and allocated resource entry capacity per each RCMU is determined, RCMO that is applying foreign resource capacity submits allocated resource entry capacity for each RCM type per each RCMU that gained entry capacity after the closure of entry capacity allocation process using the ResourceCapacityMarketUnit\_MarketDocument (or manually via the Registry web UI).

- Technical and business check are performed by the RCRT prior to the sending of an ACK with the result of validation.
- 310

# 3114.2.1.6RCMU capacity obligations data –312ResourceCapacityMarketUnit\_MarketDocument

313 All market activities regarding resource capacity obligations are out of the Registry scope.

314 Once auction for foreign resource capacity is closed and resource capacity obligations with 315 delivery periods per each RCMU are determined, RCMO that is applying foreign resource 316 317 capacity submits resource capacity obligations and delivery periods for each RCM type per 318 each RCMU that gained obligation after the market closure using the 319 ResourceCapacityMarketUnit\_MarketDocument (or manually via the Registry web UI)

320

Technical and business check are performed by the RCRT prior to the sending of an ACK with the result of validation

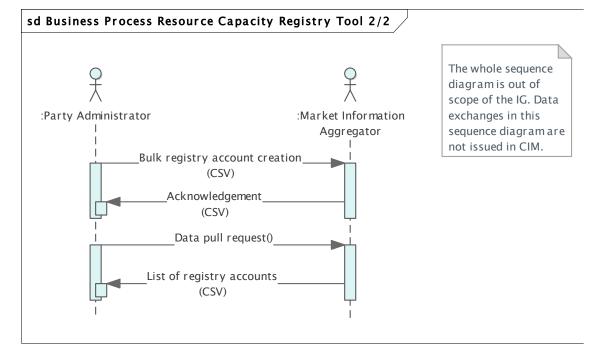
- 323
- 324

# 325 4.2.1.7 Data pull request – StatusRequest\_MarketDocument

A Status Request Document contains a list of key-value pairs. Each key-value pair consists of the fields attribute and attributeValue. These pairs of attribute and attributeValue will capture the selection criteria for the registered RCMU data.



#### 331 4.2.2 General overview of sequence diagram 2/2 (Out of scope)



332

333 334

#### Figure 3 - Sequence diagram 2/2

In order to perform simultaneous creation of multiple new resource capacity registry tool
 accounts, Party Administrator shall be able to fill respective CSV file containing details of
 account necessary to create new account.

Once uploaded, CSV file is validated, and result of validation is sent in form of acknowledgment.
 If validation was successful, new accounts will be created in resource capacity registry tool .

Party Administrator shall also have an option to retrieve all existing accounts from resource capacity registry tool by sending appropriate pull request. List of accounts is also provided in CSV format. All data exchanges in the sequence diagram above are out of scope because they are not issued in CIM.

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#### 345 4.3 **Documents overview**

The document exchange processes of resource capacity registry tool described in the previous chapter require sending and receiving various ESMP documents. The information to be exchanged is:

- Acknowledgement\_MarketDocument v8.1 based on IEC 62325-451-1:2017 Ed2;
- ResourceCapacityMarketUnit\_MarketDocument v1.2;
- StatusRequest\_MarketDocument v4.0 based on IEC 62325-451-5:2015;

352

364

#### 353 4.4 ResourceCapacityMarketUnit\_MarketDocument

354 Following shows description table а of the different attributes in 355 ResourceCapacityMarketUnit\_MarketDocument v1.2 to be used in this business process and 356 the XSD requirements for each one of them. 357

Note: RCMUs are identified with an EIC-W Production Unit function. Production units are identified with EIC-W Production Unit function. In the case, of consumption units, they are identified with EIC-W Load function. National codes are allowed for both production and consumption units

362 EIC-Z codes or national codes can be used to identify the metering points of the Resource363 Capacity Mechanism Units and the Units.

#### 365 **4.4.1 ResourceCapacityMarketUnit\_MarketDocument Dependency Table**

# 366 Table 3 - ResourceCapacityMarketUnit\_MarketDocument Dependency Table

	ResourceCap	bacityMarketUnit_Ma	arketDocument		
Class	Attribute	RCMUs basic registration	RCMU allocated entry capacity data	RCMU capacity obligations data	
ResourceCap	mRID		Used		
acityMarketU	revisionNumber		Used		
nit_MarketDo	type	B46: Resou	urce capacity unit doo	cument	
cument	process.process Type	/	A62: Registration		
	sender_MarketP articipant.mRID		Used		
		A04: System	A51: Resource	A51:	
		Operator	Capacity	Resource	
	sender_MarketP		Mechanism	Capacity	
	articipant.marekt Role.type		Operator	Mechanism Operator	
	receiver Market		Used	oporator	
	Participant.mRID				
	receiver_Market	A32: Market	A32: Market	A32: Market	
	Participant.mare	information	information	information	
	ktRole.type	Aggregator	Aggregator	Aggregator	
	createdDateTim e		Used		
	time_Period.time				
	Interval	(Time interval covered by the whole market docume			
	docstatus		Not used		
Timeseries	mRID		Used		
		C51: Resource	C52: Resource	C53:	
		capacity unit	entry capacity	Resource	
	businessType		data	capacity	



			obligation
product	071606	7000016: Active Pov	data
ρισαυσι	Not used	A01: Sequential	A01:
		fixed size block	Sequential
		A03: Variable	fixed size
		sized block	block
_			A03: Variable
curveType		the DOMLerretie	sized block
resourceCapacit yMarketUnit_Re	EIC-W code (	of the RCMU or natio	nal code.
gisteredResourc	Coding Scheme:	A01 or National Cod	ling Scheme
e.mRID			
resourceCapacit	Not used	Not used	Not used
yMarketUnit_Re			
gisteredResourc			
e.resourceCapac			
ity.maximumCap			
acity resourceCapacit	Not used	Not used	Not used
yMarketUnit_Re	Not used	Not used	Not used
gisteredResourc			
e.resourceCapac			
ity.unitSymbol			
resourceCapacit	Optional	Not used	Not used
yMarketUnit_Re	RCMU facility		
gisteredResourc	address, in case it		
e.location.name	exists. Optional	Not used	Not used
marketEvaluatio	EIC-Z code of the	1101 0360	Not used
nPoint.mRID	RCMU metering		
	point or national		
(Linked to	code.		
ResourceCapaci			
tyMarketUnit_Re	Coding Scheme:		
gisteredResourc e)	A01 or National		
resourceprovider	Coding Scheme EIC-X code of the	Not used	Not used
_MarketParticipa	Resource Provider		Not used
nt.mRID			
resourceprovider	Name of Resource	Not used	Not used
_MarketParticipa	Provider		
nt.name	A delegant of	Nature 1	Neture
resourceprovider _MarketParticipa	Address of Resource Provider	Not used	Not used
nt.streetAddress			
resourceprovider	Phone of	Not used	Not used
_MarketParticipa	Resource Provider		
nt.phone1			
resourceprovider	Email of Resource	Not used	Not used
_MarketParticipa	Provider		
nt.electronicAddr ess			
633	EIC-X code of the	Not used	Not used
	Grid operator in		
	which RCMU is		
networkOperator	located		
_MarketParticipa	Coding Scheme:		
nt.mRID	A01		



	resourceCapacit yMechanismOpe rator_MarketPart icipant.mRID	EIC-X code of the RCMO operator in which RCMU is located Coding Scheme: A01	Not used	Not used
	memberState_M arketParticipant. mRID	EIC-Y code of the member state in which the RCMU intends to participate (One timeseries per member state)	EIC-Y code of the member state	EIC-Y code of the member state
	initialRegistratio n_DateAndOrTi me.dateTime	Not used	Not used	Not used
	registration_Dat eAndOrTime.dat eTime	Not used	Not used	Not used
	lastVerification_ DateAndOrTime. dateTime	Not used	Not used	Not used
	primaryMarketPa rticipation_Mark etObjectStatus.s tatus	Not used	Not used	Not used
	secondaryMarke tParticipation_M arketObjectStatu s.status	Not used	Not used	Not used
		Not used	Optional	Optional
			A08: Market wide resource capacity mechanism	A08: Market wide resource capacity mechanism
			A09: Strategic reserve resource capacity mechanism	A09: Strategic reserve resource capacity mechanism
	capacityMechani sm_MarketProdu ct.marketProduct Type		A10: Other resource capacity mechanism	A10: Other resource capacity mechanism
	clearanceNumbe r_Names.name	Not used	Optional	Optional
		Not used	Used	Used
			MAW: Megawatt	MAW: Megawatt
	measurement_U nit.name		(Allocated entry capacity measurement)	(Volume of capacity obligation measurement)
ElegibilityPeri od (Time_Period		Not used	Not used	Not used
)	timeInterval			



Unit_Register edResource edResource Herein and a state of the unit or national code. Coding Scheme: A01 or National Coding Scheme: A01 or National Discrete Capacit y.unitSymbol B10: Hydro- lectric pure pumped storage head installation B11: Hydro Run- of-river head installation B12: Hydro- electric storage head installation B13: Marine unspecified B14: Nuclear unspecified B15: Other renewable B16: Solar unspecified B18: Wind Offshore B20: Other unspecified B25: Energy storage B26: Demand Side Response B27: Dispatchable hydro resource B28: Solar photovoltaic B29: Solar concentration B30: Wind unspecified B31: Hydro- electric unspecified B31: Hydro- electric unspecified B31: Hydro- electric unspecified B31: Hydro- electric unspecified B31: Hydro- electric unspecified B31: Hydro- electric unspecified B31: Marine tidal B33: Marine tidal B34: Marine Market Market Market Ma					
edResource unit or national code. Coding Scheme: A01 or National Coding Scheme: A01 or National Coding Scheme resourceCapacit Used Not Use				Not used	Not used
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head installation B33: Marine tidal					
B33: Marine tidal					
			head installation		
B34: Marine wave					
			B34: Marine wave		
B35: Marine					
currents					
technology_PSR B36: Marine			B36: Marine		
Type.psrType pressure		Type.psrType	pressure	<u> </u>	

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	B37: Thermal		
	unspecified		
	B38: Thermal		
	combined cycle		
	gas turbine with		
	heat recovery		
	B39: Thermal		
	steam turbine with		
	back-pressure		
	turbine (open		
	cycle)		
	B40: Thermal		
	steam turbine with		
	condensation		
	turbine (closed		
	cycle)		
	B41: Thermal gas		
	turbine with heat		
	recovery		
	B42: Thermal		
	internal		
	combustion engine		
	B43: Thermal		
	micro-turbine		
	B44: Thermal		
	Stirling engine		
	B45: Thermal fuel		
	cell		
	B46: Thermal		
	steam engine		
	B47: Thermal		
	organic Rankine		
	cycle		
	B48: Thermal gas		
	turbine without		
	heat recovery		
	B49: Nuclear		
	heavy water		
	reactor		
	B50: Nuclear light		
	water reactor		
	B51: Nuclear		
	breeder		
	B52: Nuclear		
	graphite reactor		
	3		
	A01: Unspecified	Not used	Not used
	A01: Onspecified A02: Renewable		
	solid unspecified		
	A03: Renewable		
	solid municipal		
	waste		
	A04: Renewable		
	solid industrial and		
	commercial waste		
	A05: Renewable		
	solid wood		
	A06: Renewable		
Fuel.fuel	solid animal fats		
FUELIUEL			



TT		
	A07: Renewable	
	solid biomass from	
	agriculture	
	A08: Renewable	
	liquid unspecified	
	A09: Renewable	
	liquid municipal	
	biodegradable	
	waste	
	A10: Renewable	
	liquid black liquor	
	A11: Renewable	
	liquid pure plant oil	
	A12: Renewable	
	liquid waste plant	
	oil	
	liquid refined	
	vegetable oil	
	A14: Renewable	
	gaseous	
	unspecified	
	A15: Renewable	
	gaseous landfill	
	0	
	gas A4C Denewable	
	A16: Renewable	
	gaseous sewage	
	gas	
	A17: Renewable	
	gaseous	
	agricultural gas	
	A18: Renewable	
	gaseous gas from	
	organic waste	
	digastion	
	digestion	
	A19: Renewable	
	gaseous process	
	gas	
	A20: Renewable	
	gaseous other	
	biogenic sources	
	A21: Renewable	
	heating and	
	cooling solar	
	A22: Renewable	
	heating and	
	cooling geothermal	
	A23: Renewable	
	heating and	
	cooling	
	aerothermal	
	A24: Renewable	
	heating and	
	cooling	
	hydrothermal	
	A25: Renewable	
	heating and	
	cooling process	
	heat	

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 <u> </u>
A26: Renewable
mechanical
unspecified
A27: Renewable
mechanical wind
A28: Renewable
mechanical hydro
and marine
A29: Fossil
A30: Fossil solid
unspecified
A31: Fossil solid
hard coal
A32: Fossil solid
brown coal
A33: Fossil solid
peat
A34: Fossil solid
municipal waste
A35: Fossil solid
industrial and
commercial waste
A36: Fossil liquid
unspecified
A37: Fossil liquid
crude oil
A38: Fossil liquid
natural gas liquids
(NGL)
À39: Fossil liquid
petroleum
products
A40: Fossil
gaseous
unspecified
gaseous natural
gas
A42: Fossil
gaseous coal-
derived gas
A43: Fossil
gaseous petroleum
products
A44: Fossil
gaseous municipal
gas plant
A45: Fossil
gaseous process
•
gas
A46: Fossil heat
unspecified
A47: Fossil heat
process heat
A48: Nuclear solid
radioactive fuel
A49: Gas
synthesis
unspecified
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synthesis furnace gas A51: Waste heat and cold By- product in industrial installation A52: Waste heat and cold By- product in power generation A54: Waste heat and cold By- product in power generation A54: Waste heat and cold By- product in tertiary sector street_Location. The Mandatory street number where unit is ocated me located me located me located me located me streetNumber_L ocation.name generation me located me located me located me located me located me located me located me located me located me located me located me located me located me located me located me located me located me located me located me located me located me located me located me located me located me located me located me located me located me located me located me located me located me located me located me located me located me located me located me located me located me located me located me located me located me located me located me located me located me located me located me located me located me located me located me located me located me located me located me located me located me located me located me located me located me located me located me located me located me located me located me located me located me located me located me me located me me located me me located me me located me me located me me located me me located me me located me me located me me me located me me located me me me located me me me me located me me me me me me me me me me me me me	Γ	4.50 0.00		
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Å51: Waste heat and       and       cold unspecified A52: Waste heat and       cold By- product in industrial installation A53: Waste heat and       installation A53: Waste heat and       installation A54: Waste heat and       installation Cold         street_Location.       Mandatory Street number       Not used       Not used       Not used         streetNumber_L ocation.name       Mandatory Icity_Location.name       Not used       Not used       Not used         me       located       Not used       Not used       Not used       Not used         postalCode_Loc ation.name       Mandatory Mandatory       Not used       Not used       Not used         gPS_Location.g gPS_Location.g gPS_Location.g gPS_Location.g gPS_Location.g gPS_Location.g gPS_Location.g gPS_Location.g gPS_Location.g gPS_Location.g gPS_Location.g gPS_Location.g gPS_Location.g gPS_Location.g gPS_Location.g gPS_Location.g gPS_Location.g gPS_Location.g gPS_Location.g gPS_Location.g gPS_Location.g gPS_Location.g gPS_Location.g gPS_Location.g gPS_Location.g gPS_Location.g gPS_Location.g gPS_Location.g gPS_Location.g gPS_Location.g gPS_Location.g gPS_Location.g gPS_Location.g gPS_Location.g gPS_Location.g gPS_Location.g gPS_Location.g gPS_Location.g gPS_Location.g gPS_Location.g gPS_Location.g gPS_Location.g gPS_Location.g gPS_Location.g gPS_Location.g gPS_Loc		-		
and     cold       unspecified       A52:     Waste heat       and     cold       pproduct     in       installation       A53:     Waste heat       and     cold       By-product     in power       generation     A54:       A54:     Waste heat       and     cold       By-product     in tertilary       street_Location.     Mandatory       streetNumber_L     Mandatory       StreetNumber_L     Mandatory       icity_Location.na     Mandatory       Not used     Not used       viewer unit is     located       Mandatory     Not used       viewer unit is     located       Mandatory     Not used       postalCode_Loc     Mandatory       ation.name     Used       unit is located     Not used       Mandatory     Not used       country_Locatio     Country where unit is       is located     Not used       Mandatory     Not used       gPS_Location.g     provided       pS_stem.mRID     A03: WGS84       ystem.mRID     Latitude       ts.yPosition     Latitude       ts.yPosition     Latitude <td< td=""><td></td><td></td><td></td><td></td></td<>				
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A52: Waste heat and cold By- product in installation A53: Waste heat and cold By- product in tertiary sector       street_Location. name     Mandatory Mandatory     Not used       street_Location. name     Mandatory Street number located     Not used       streetNumber_L coation.name     Mandatory Where unit is located     Not used       city_Location.name     Mandatory Where unit is located     Not used       postalCode_Loc ation.name     Mandatory Where unit is located     Not used       mame     Mandatory Where unit is located     Not used       mame     City Hore unit is located     Not used       mame     Mandatory Not used     Not used       postalCode_Loc ation.name     Mandatory is located     Not used       mame     Mandatory is coordinates are provided     Not used       gPS_Location.g gPS_Location.g gPS_Location.g gPS_Location.g gPS_Location.g gPS_Location.g gPS_Location.g gPS_Location.g gPS_PositionPoin ts.xPosition     Mandatory in case that GPS coordinates are provided     Not used       Mandatory in case that GPS coordinates are provided     Not used     Not used       gPS_Location.g PS_PositionPoin ts.yPosition     Mandatory in case that GPS coordinates are provided     Not used       Mandatory in case that GPS coordinates are provided     Not used     Not used       gPS_Location.g PS_PositionPoin     Mandatory in case that GPS coordinates are provided     Not used		and cold		
and     cold     By- product     in industrial       installation     A53:     Waste heat and     cold       A53:     Waste heat and     cold     By- product in power generation       A54:     Waste heat and     cold     By- product in tertiary sector       street_Location. name     Mandatory     Not used     Not used       StreetNumber_L     Vaste heat located     Not used     Not used       ocation.name     Mandatory     Not used     Not used       ocation.name     Mandatory     Not used     Not used       ocation.name     Mandatory     Not used     Not used       ocated     Mandatory     Not used     Not used       opstalCode_Loc     Postal code where unit is located     Not used     Not used       mandatory     Country where unit is located     Not used     Not used       mandatory is located     Mandatory in case that GPS     Not used     Not used       gPS_Location.g     Mandatory in case that GPS     Not used     Not used       gPS_PositionPoin     Laitude     Industrial GPS     Not used       gPS_Location.g     provided     Provided     Not used       gPS_Location.g     Mandatory in case that GPS     Not used     Not used       gPS_PositionPoin     Longitude <td></td> <td>unspecified</td> <td></td> <td></td>		unspecified		
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PS_PositionPoin	aPS Location a			
		provided		
	LES EOSMODEOD	1		
ts.zPosition Altitude				

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		Optional	Not used	Not used
		EIC-Z code of the Unit metering point		
	marketEvaluatio	or national code.		
	nPoint.mRID			
	(Linked to	Coding Scheme:		
	Unit_Registered	A01 or National		
	Resource)	Coding Scheme		
Measurement	110000100)	Optional	Not used	Not used
s (Analog)	measurementTy	A23: CO2		
- (	pe	emission		
	unitSymbol	Only used with	Not used	Not used
	-	code A23:CO2		
		emission		
		GKH: grams per		
		kilowatt hour		
	analogValues.va	Only used with	Not used	Not used
	lue	code A23:CO2		
		emission		
		(0 in case of no		
Outre Dutet	Constates at	CO2 emission)	111	
Series_Period	timeInterval	Not used	Used	USed
	resolution	Not used	Delivery period	Delivery Period
			(One value for the	Penou
			whole delivery	(One value for
			period)	the whole
				delivery
				period)
Point	position	Not used	Used	Used
	quantity	Not used	Allocated entry	Volume of
			capacity	capacity



# 371 4.5 StatusRequest\_MarketDocument

Following table shows a description of the different attributes in
 StatusRequest\_MarketDocument v1.0 to be used in this business process and the XSD
 requirements for each one of them.

### 375 4.5.1 StatusRequest\_MarketDocument Dependency Table

# 376 Table 4 - StatusRequest\_MarketDocument Dependency Table

	StatusRequest_MarketDocument		
Class	Attribute	Values	
StatusReques	mRID	Used	
t_MarketDocu	type	A59: Information request	
ment	sender_MarketP	Used	
	articipant.mRID		
	sender_MarketP	A04: System Operator	
	articipant.market	A51: Resource Capacity Mechanism Operator	
	Role.type		
	receiver_Market	Used	
	Participant.mRID		
	receiver_Market	A32: Market information Aggregator	
	Participant.mark		
	etRole.type		
	createdDateTim	Used	
	е		

377

# 378 4.5.2 AttributeInstanceComponent queries

- 379 General Notes:
- Only one option is allowed per request
- In case of retrieving n RCMUs information, you should include n instances of AttributeInstanceComponent including the n ResourceCapacityMarketUnit\_RegisteredResource.mRID. If user wants all RCMU, then user has to put a star (\*)
- 385 ResourceCapacityMarketUnit\_RegisteredResource.mRID instance.
- history\_period attribute is used to obtain RCMU results from the registry in a determined time interval. The time interval is composed of two date times (begin and end) linked with a low bar. The date time has to be issued in ISO 8601 format and in UTC. Expected time interval should look like this: YYYY-MM-
- 390DDThh:mm:ss.sssZ\_YYYY-MM-DDThh:mm:ss.sssZ (To the left of low bar we have the<br/>begin date and to the right the end date)
- As national codes are also allowed to identify RCMUs, we need to include Coding
   Scheme to distinguish between EIC or national codes. For that reason, together with
   the RCMU ID, user has to submit the coding scheme. RCMU ID and coding scheme
   will be sent together and separated by a semicolon. E.G. 14W-GJO-KW-TU1-Q;A01
- 396 397

# 398 4.5.2.1 RCMU registration details

This query returns the RCMU registration details except allocated entry capacity, eligibility and capacity obligations.



# 402 **Table 5 – RCMU registration details request**

attribute	option		
attributeValue	RCMU_registration_details		
attribute	ResourceCapacityMarketUnit_RegisteredResource.mRID		
attributeValue	EIC-W code of the RCMU or national code.		
	Or		
	*		
	(To get all RCMUs)		
attribute	history_period		
	(Only used in case we want to filter data for a determined period)		
attributeValue	Historical period to be retrieved.		
	(Only used in case we want to filter data for a determined period)		

403 404

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### 406 4.5.2.2 RCMU market details

407 This query returns the RCMU allocated entry capacity, eligibility and capacity obligations.

408 409

Table 6 – RCMU market details query

	market detaile query	
attribute	option	
attributeValue	RCMU_market_details	
attribute	ResourceCapacityMarketUnit_RegisteredResource.mRID	
attributeValue	EIC-W code of the RCMU or national code.	
	Or	
	*	
	(To get all RCMUs)	
attribute	history_period	
	(Only used in case we want to filter data for a determined period)	
attributeValue	Historical period to be retrieved.	
	(Only used in case we want to filter data for a determined period)	

410

# 411 4.5.2.3 RCMU registration and market details

This query returns the RCMU registration details, the allocated entry capacity, eligibility and capacity obligations.

413 capacity obligations.414

414 415

# Table 7 – RCMU registration and market details query

attribute	option	
attributeValue	RCMU_registration_market_details	
attribute	ResourceCapacityMarketUnit_RegisteredResource.mRID	
attributeValue	EIC-W code of the RCMU or national code.	
	Or	
	*	
	(To get all RCMUs)	
attribute	history_period	
	(Only used in case we want to filter data for a determined period)	
attributeValue	Historical period to be retrieved.	
	(Only used in case we want to filter data for a determined period)	

416

# 417 4.5.2.4 RCMU corporate credentials

- 418 This query returns the RCMU corporate credentials.
- 419

# 420 Table 8 – RCMU corporate credentials

attribute	option	
attributeValue	RCMU_coorporate_credentials	
attribute	ResourceCapacityMarketUnit_RegisteredResource.mRID	
attributeValue	EIC-W code of the RCMU or national code.	
	0.	
	Or	
	*	
	(To get all RCMUs)	
attribute	history_period	
	(Only used in case we want to filter data for a determined period)	
attributeValue	Historical period to be retrieved.	
	(Only used in case we want to filter data for a determined period)	



### 422 4.5.2.5 RCMU facility address

423 This query returns the RCMU facility address.

# 424

# 425 Table 9 – RCMU facility address

attribute	option	
attributeValue	RCMU_facility_address	
attribute	ResourceCapacityMarketUnit_RegisteredResource.mRID	
attributeValue	EIC-W code of the RCMU or national code.	
	Or	
	*	
	(To get all RCMUs)	
attribute	history_period	
	(Only used in case we want to filter data for a determined period)	
attributeValue	Historical period to be retrieved.	
	(Only used in case we want to filter data for a determined period)	

#### 426

# 427 4.5.2.6 RCMU aggregated capacity

- 428 This query returns the RCMU aggregated maximum capacity.
- 429

# 430 Table 10 – RCMU aggregated capacity

attribute	option		
attributeValue	RCMU_aggregated_capacity		
attribute	ResourceCapacityMarketUnit_RegisteredResource.mRID		
attributeValue	EIC-W code of the RCMU or national code.		
	Or		
	*		
	(To get all RCMUs)		
attribute	history_period		
	(Only used in case we want to filter data for a determined period)		
attributeValue	Historical period to be retrieved.		
	(Only used in case we want to filter data for a determined period)		

# 431

# 432 4.5.2.7 RCMU grid operator

433 This query returns the RCMU grid operator.

#### 434 435

#### Table 11 – RCMU grid operator

attribute	option		
attributeValue	RCMU_grid_operator		
attribute	ResourceCapacityMarketUnit_RegisteredResource.mRID		
attributeValue	EIC-W code of the RCMU or national code.		
	Or		
	*		
	(To get all RCMUs)		
attribute	history_period		
	(Only used in case we want to filter data for a determined period)		
attributeValue	Historical period to be retrieved.		
	(Only used in case we want to filter data for a determined period)		

436 437

#### 438 4.5.2.8 RCMO where RCMU is located

439 This query returns the RCMO where RCMU is located.



# 441 Table 12 – RCMO where RCMU is located

attribute	option	
attributeValue	RCMU_RCMO	
attribute	ResourceCapacityMarketUnit_RegisteredResource.mRID	
attributeValue	EIC-W code of the RCMU or national code.	
	Or	
	*	
	(To get all RCMUs)	
attribute	history_period	
	(Only used in case we want to filter data for a determined period)	
attributeValue	Historical period to be retrieved.	
	(Only used in case we want to filter data for a determined period)	

#### 442

### 443 **4.5.2.9 RCMU CO2 emission**

- 444 This query returns the CO2 emission per unit in the RCMU.
- 445

# 446 Table 13 – RCMU CO2 emission

attribute	option	
attributeValue	RCMU_CO2	
attribute	ResourceCapacityMarketUnit_RegisteredResource.mRID	
attributeValue	EIC-W code of the RCMU or national code.	
	Or	
	*	
	(To get all RCMUs)	
attribute	history_period	
	(Only used in case we want to filter data for a determined period)	
attributeValue	Historical period to be retrieved.	
	(Only used in case we want to filter data for a determined period)	

447

#### 448 4.5.2.10 RCMU Technology Types

- 449 This query returns the technology per unit in the RCMU.
- 450 451

#### Table 14 – RCMU Technology Types

attribute	option			
attributeValue	RCMU_technology_types			
attribute	ResourceCapacityMarketUnit_RegisteredResource.mRID			
attributeValue	EIC-W code of the RCMU or national code.			
	Or			
	*			
	(To get all RCMUs)			
attribute	history_period			
	(Only used in case we want to filter data for a determined period)			
attributeValue	Historical period to be retrieved.			
	(Only used in case we want to filter data for a determined period)			



## 454 **4.5.2.11 RCMU Eligibility periods**

- 455 This query returns the RCMU eligibility periods.
- 456

# 457 Table 15 – RCMU eligibility periods

attribute	option				
attributeValue	RCMU_eligibility_periods				
attribute	ResourceCapacityMarketUnit_RegisteredResource.mRID				
attributeValue	EIC-W code of the RCMU or national code.				
	Or				
	*				
	(To get all RCMUs)				
attribute	memberState_MarketParticipant.mRID				
	(Only used in case we want to filter per member state)				
attributeValue	EIC-Y code of the member state				
	(Only used in case we want to filter per member state)				
attribute	elegibility_Period.timeInterval				
attaile set a Males a	(Only used in case we want to filter the eligibility period)				
attributeValue	Time Interval of the Eligibility Period				
ottributo	(Only used in case we want to filter the eligibility period)				
attribute primaryMarketParticipation_MarketObjectStatus.s					
	(Only used in case we want to filter primary market participation status)				
attributeValue	A61: Primary market				
attribute	secondaryMarketParticipation_MarketObjectStatus.status				
(Only used in case we want to filter secondary market p					
	status)				
attributeValue	A62: Secondary market				
attribute	capacityMechanism_MarketProduct.marketProductType				
	(Only used in case we want to filter capacity mechanism type)				
attributeValue	A08: Market wide resource capacity mechanism				
	A09: Strategic reserve resource capacity mechanism				
	A10: Other resource capacity mechanism				
attribute	clearanceNumber_Names.name				
	(Only used in case we want to filter by clearance number)				
attributeValue	Clearance number				
	(Only used in case we want to filter by clearance number)				
attribute	history_period				
	(Only used in case we want to filter data for a determined period)				
attributeValue	Historical period to be retrieved.				
	(Only used in case we want to filter data for a determined period)				

458

#### 459 4.5.2.12 RCMU allocated entry capacities

460 This query returns the RCMU allocated entry capacities.

461 462

#### Table 16 – RCMU allocated entry capacities

attribute	option				
attributeValue	RCMU_entry_capacities				
attribute	ResourceCapacityMarketUnit_RegisteredResource.mRID				
attributeValue	EIC-W code of the RCMU or national code.				
	Or				
	*				
	(To get all RCMUs)				
attribute	memberState_MarketParticipant.mRID				
	(Only used in case we want to filter per member state)				
attributeValue	EIC-Y code of the member state				

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	(Only used in case we want to filter per member state)			
attribute	Delivery_Period.timeInterval			
	(Only used in case we want to filter the eligibility period)			
attributeValue	Time Interval of the Delivery Period			
	(Only used in case we want to filter the eligibility period)			
attribute	history_period			
	(Only used in case we want to filter data for a determined period)			
attributeValue	Historical period to be retrieved.			
	(Only used in case we want to filter data for a determined period)			

# 464 4.5.2.13 RCMU capacity obligations

465 This query returns the RCMU capacity obligations.

466 467

# Table 17 – RCMU capacity obligations

Table 17 - Kewo capacity obligations				
attribute	option			
attributeValue	RCMU_capacity_obligations			
attribute	ResourceCapacityMarketUnit_RegisteredResource.mRID			
attributeValue	EIC-W code of the RCMU or national code.			
	Or			
	*			
	(To get all RCMUs)			
attribute	memberState_MarketParticipant.mRID			
	(Only used in case we want to filter per member state)			
attributeValue	EIC-Y code of the member state			
	(Only used in case we want to filter per member state)			
attribute	delivery_period			
	(Only used in case we want to filter delivery period)			
attributeValue	Delivery period time interval			
	(Only used in case we want to filter delivery period)			
attribute	history_period			
	(Only used in case we want to filter data for a determined period)			
attributeValue	Historical period to be retrieved.			
	(Only used in case we want to filter data for a determined period)			



#### 470 4.6 **Responses to status requests**

Following table shows a description of the responses to the different requests detailed in the previous chapter. ResourceCapacityMarketUnit\_MarketDocument will be used to provide the requested data for all the different cases.

# 474 **4.6.1** ResourceCapacityMarketUnit\_MarketDocument Dependency Table

The dependency table below for ResourceCapacityMarketUnit\_MarketDocument class will be used for all the responses to the different requests.

Class	Attribute	Values
ResourceCap	mRID	Used
acityMarketU	revisionNumber	Used
nit_MarketDo	type	B46: Resource capacity unit document
cument	process.process Type	A62: Registration
	sender_MarketP articipant.mRID	Used
	sender_MarketP articipant.marekt Role.type	A32: Market information Aggregator
	receiver_Market Participant.mRID	Used
	receiver_Market	A04: System Operator
	Participant.mare ktRole.type	A51: Resource Capacity Mechanism Operator
	createdDateTim	Used
	е	
	time_Period.time Interval	Used
	docstatus	Not used



#### 479 **4.6.2 RCMU Timeseries Dependency Table 1/4**

The dependency table below shows the different combinations for RCMU registration details,
 RCMU market details and RCMU registration and market details.

# 482 **Table 18 - RCMU Timeseries Dependency Table 1/4**

Class	Attribute	RCMU registration	RCMU market details	RCMU registration	
		details		and market details	
Timeseries	mRID		Used	uctans	
		C51: Resource	C51: Resource	C51: Resource	
		capacity unit	capacity unit	capacity unit	
			C52: Resource	C52: Resource	
			entry capacity	entry capacity	
			data	data	
			C53: Resource	C53: Resource	
			capacity	capacity	
	businessType		obligation data	obligation data	
	product		67000016: Active Pov		
		Not used	A01: Sequential	A01:	
			fixed size block	Sequential	
			A03: Variable	fixed size block	
			sized block	A03: Variable	
	curveType			sized block	
	resourceCapacit yMarketUnit_Re	EIC-W code of the RCMU or national code.			
	gisteredResourc e.mRID	Coding Scheme: A01 or National Coding Scheme			
	resourceCapacit yMarketUnit_Re gisteredResourc e.resourceCapac ity.maximumCap acity	Not used	Not used	Not used	
	resourceCapacit yMarketUnit_Re gisteredResourc e.resourceCapac ity.unitSymbol	Not used	Not used	Not used	
	resourceCapacit yMarketUnit_Re gisteredResourc e.location.name	Not used	Not used	Not used	



Class	Attribute	RCMU registration details	RCMU market details	RCMU registration and market details
	marketEvaluatio nPoint.mRID (Linked to ResourceCapaci tyMarketUnit_Re gisteredResourc e)	Mandatory in case that metering point is registered EIC-Z code of the RCMU metering point or national code. Coding Scheme: A01 or National Coding Scheme	Not used	Mandatory in case that metering point is registered EIC-Z code of the RCMU metering point or national code. Coding Scheme: A01 or National Coding Scheme (Only for
		EIC-X code of the Resource Provider	Not used	businessType code C51) EIC-X code of the Resource
	resourceprovider _MarketParticipa nt.mRID			Provider (Only for businessType code C51)
		Name of Resource Provider	Not used	Name of Resource Provider
	resourceprovider _MarketParticipa nt.name			(Only for businessType code C51)
		Address of Resource Provider	Not used	Address of Resource Provider
	resourceprovider _MarketParticipa nt.streetAddress			(Only for businessType code C51)
		Phone of Resource Provider	Not used	Phone of Resource Provider
	resourceprovider _MarketParticipa nt.phone1			(Only for businessType code C51)
	resourceprovider _MarketParticipa nt.electronicAddr ess	Email of Resource Provider	Not used	Email of Resource Provider (Only for businessType code C51)



Class	Attribute	RCMU registration details	RCMU market details	RCMU registration and market details
	networkOperator	EIC-X code of the Grid operator Coding Scheme: A01	Not used	EIC-X code of the Grid operator Coding Scheme: A01 (Only for
	_MarketParticipa nt.mRID			businessType code C51)
	resourceCapacit yMechanismOpe rator_MarketPart icipant.mRID	EIC-X code of the RCMO Coding Scheme: A01	Not used	EIC-X code of the RCMO Coding Scheme: A01
	memberState_M arketParticipant. mRID	EIC-Y code of the member state	EIC-Y code of the member state	EIC-Y code of the member state
	initialRegistratio n_DateAndOrTi me.dateTime	Used	Used	Used
	registration_Dat	Used (If no updates in RCMU, initial registration and registration is the same datetime)	Used (If no updates in RCMU, initial registration and registration is the same datetime)	Used (If no updates in RCMU, initial registration and registration is
	eAndOrTime.dat eTime			the same datetime)
	lastVerification_ DateAndOrTime. dateTime	May be used when retrieving data	May be used when retrieving data	May be used when retrieving data
	primaryMarketPa rticipation_Mark etObjectStatus.s tatus	Not used	Optional A61: Primary market	Optional A61: Primary market
	secondaryMarke tParticipation_M arketObjectStatu s.status	Not used	Optional A62: Secondary market	Optional A62: Secondary market

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Class	Attribute	RCMU	RCMU market	RCMU
		registration	details	registration
		details		and market details
		Not used	Mandatory only if	Mandatory only
			capacity	if capacity
			mechanism	mechanism
			product is	product is
			registered	registered
			A08: Market wide	A08: Market
			resource capacity	wide resource
			mechanism	capacity
			A09: Strategic	mechanism
			reserve resource	A09: Strategic
			capacity	reserve
			mechanism	resource
			A10: Other	capacity
			resource capacity	mechanism
	capacityMechani		mechanism	A10: Other
	sm_MarketProdu ct.marketProduct			resource capacity
	Type			mechanism
	clearanceNumbe	Not used	Optional	Optional
	r_Names.name		optional	o p noman
		Not used	Used	Used
			MAW: Megawatt	MAW:
	measurement_U		_	Megawatt
ElegibilityPeri	nit.name	Not used	Used	Used
od		Not used	(Only for	(Only for
(Time_Period			businessType	businessType
)	timeInterval		code C51)	code C51)
Unit_Register		EIC-W code of the	Not used	EIC code of
edResource		Unit or national		the unit.
		code.		Coding
				Scheme: A01
		Coding Scheme:		(Only for
		A01 or National		businessType
	mRID	Coding Scheme	Net	code C51)
	ranguranCanacit	Used	Not used	Used Only for
	resourceCapacit y.maximumCapa			(Only for businessType
	city			code C51)
	ony	MAW: Megawatt	Not used	MAW:
				Megawatt
				(Only for
	resourceCapacit			businessType
	y.unitSymbol			code C51)



 			·
	B10: Hydro-	Not used	B10: Hydro-
	electric pure		electric pure
	pumped storage		pumped
	head installation		storage head
	B11: Hydro Run-		installation
	of-river head		B11: Hydro
	installation		Run-of-river
	B12: Hydro-		head
	electric storage		installation
	head installation		B12: Hydro-
	B13: Marine		electric storage
	unspecified		head
	B14: Nuclear		installation
	unspecifiedr		B13: Marine
	B15: Other		unspecified
	renewable		B14: Nuclear
	B16: Solar		unspecifiedr
	unspecified		B15: Other
	B18: Wind		renewable
	Offshore		B16: Solar
	B19: Wind onshore		unspecified
	B20: Other		B18: Wind
	unspecified		Offshore
	B25: Energy		B19: Wind
	storage		onshore
	B26: Demand Side		B20: Other
	Response		unspecified
	B27: Dispatchable		B25: Energy
	hydro resource		storage
	B28: Solar		B26: Demand
	photovoltaic		Side Response
	B29: Solar		B27:
	concentration		Dispatchable
	B30: Wind		hydro resource
	unspecified		B28: Solar
	B31: Hydro-		photovoltaic
	electric		B29: Solar
	unspecified		concentration
	B32: Hydro-		B30: Wind
	electric mixed		unspecified
	pumped storage		B31: Hydro-
	head installation		electric
	B33: Marine tidal		unspecified
	B34: Marine wave		B32: Hydro-
	B35: Marine		electric mixed
	currents		pumped
	B36: Marine		storage head
	pressure		installation
	B37: Thermal		B33: Marine
	unspecified		tidal
	B38: Thermal		B34: Marine
	combined cycle		wave
	gas turbine with		B35: Marine
	heat recovery		currents
	B39: Thermal		B36: Marine
	steam turbine with		pressure
	back-pressure		B37: Thermal
	turbine (open		unspecified
	cycle)		B38: Thermal
technology_PSR	B40: Thermal		combined cycle
Type.psrType	steam turbine with		gas turbine

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Class	Attribute	RCMU registration details	RCMU market details	RCMU registration and market
				details
		condensation		with heat
		turbine (closed		recovery
		cycle)		B39: Thermal
		B41: Thermal gas		steam turbine
		turbine with heat		with back-
		recovery		pressure
		B42: Thermal		turbine (open
		internal		cycle)
		combustion engine		B40: Thermal
		B43: Thermal		steam turbine
		micro-turbine		with
		B44: Thermal		condensation
		Stirling engine		turbine (closed
		B45: Thermal fuel		cycle)
		cell R46: Thormol		B41: Thermal
		B46: Thermal		gas turbine with heat
		steam engine B47: Thermal		
				recovery B42: Thermal
		organic Rankine cycle		internal
		B48: Thermal gas		combustion
		turbine without		
		heat recovery		engine B43: Thermal
		B49: Nuclear		micro-turbine
		heavy water		B44: Thermal
		reactor		Stirling engine
		B50: Nuclear light		B45: Thermal
		water reactor		fuel cell
		B51: Nuclear		B46: Thermal
		breeder		steam engine
		B52: Nuclear		B47: Thermal
		graphite reactor		organic
		3 4		Rankine cycle
				B48: Thermal
				gas turbine
				without heat
				recovery
				B49: Nuclear
				heavy water
				reactor
				B50: Nuclear
				light water
				reactor
				B51: Nuclear
				breeder
				B52: Nuclear
				graphite
				reactor
				(Only for
				businessType
				code C51)



			[
	A01: Unspecified	Not used	A01:
	A02: Renewable		Unspecified
	solid unspecified		A02:
	A03: Renewable		Renewable
	solid municipal		solid
	waste		unspecified
	A04: Renewable		A03:
	solid industrial and		Renewable
	commercial waste		solid municipal
			waste
	solid wood		A04:
	A06: Renewable		Renewable
	solid animal fats		solid industrial
	A07: Renewable		and
	solid biomass from		commercial
	agriculture		waste
	A08: Renewable		A05:
	liquid unspecified		Renewable
	A09: Renewable		solid wood
	liquid municipal		A06:
	biodegradable		Renewable
	waste		solid animal
	A10: Renewable		fats
	liquid black liquor		A07:
	A11: Renewable		Renewable
	liquid pure plant oil		solid biomass
	A12: Renewable		from
	liquid waste plant		agriculture
	oil		A08:
	A13: Renewable		Renewable
	liquid refined		liquid
	vegetable oil		unspecified
	A14: Renewable		A09:
	gaseous		Renewable
	unspecified		liquid municipal
	A15: Renewable		biodegradable
	gaseous landfill		waste
	gas		A10:
	A16: Renewable		Renewable
	gaseous sewage		liquid black
	gas		liquor
	A17: Renewable		A11:
	gaseous		Renewable
	agricultural gas		
	A18: Renewable		
			plant oil
	gaseous gas from		A12:
	organic waste		Renewable
	digestion		liquid waste
	A19: Renewable		plant oil
	gaseous process		A13:
	gas		Renewable
	A20: Renewable		liquid refined
	gaseous other		vegetable oil
	biogenic sources		A14:
	A21: Renewable		Renewable
	heating and		gaseous
	cooling solar		unspecified
	A22: Renewable		A15:
1	heating and		Renewable
Fuel.fuel	cooling geothermal		gaseous landfill

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 1	1
A23: Renewable	A16:
heating and	Renewable
cooling	gaseous
aerothermal	sewage gas
A24: Renewable	A17:
heating and	Renewable
cooling	gaseous
hydrothermal	agricultural gas
A25: Renewable	A18:
heating and	Renewable
cooling process	
heat	• •
A26: Renewable	from organic waste digestion
mechanical	A19:
unspecified	Renewable
A27: Renewable	gaseous
mechanical wind	process gas
A28: Renewable	A20:
mechanical hydro	Renewable
and marine	gaseous other
A29: Fossil	biogenic
unspecified	sources
A30: Fossil solid	A21:
unspecified	Renewable
A31: Fossil solid	heating and
hard coal	cooling solar
A32: Fossil solid	A22:
brown coal	Renewable
A33: Fossil solid	heating and
peat	cooling
A34: Fossil solid	geothermal
municipal waste	A23:
A35: Fossil solid	Renewable
industrial and	
commercial waste	cooling
A36: Fossil liquid	aerothermal
unspecified	A24:
A37: Fossil liquid	Renewable
crude oil	heating and
A38: Fossil liquid	cooling
natural gas liquids	hydrothermal
(NGL)	A25:
A39: Fossil liquid	Renewable
petroleum	heating and
products	cooling process
A40: Fossil	heat
gaseous	A26:
unspecified	Renewable
A41: Fossil	mechanical
gaseous natural	unspecified
gas	A27:
A42: Fossil	Renewable
gaseous coal-	mechanical
derived gas	wind
A43: Fossil	A28:
gaseous petroleum	Renewable
products	mechanical
A44: Fossil	hydro and
gaseous municipal	marine
gaseous municipal gas plant	marine A29: Fossil unspecified

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A45: Fossil	A30: Fossil
gaseous process	solid
gas	unspecified
A46: Fossil heat	A31: Fossil
unspecified	solid hard coal
A47: Fossil heat	A32: Fossil
process heat	solid brown
A48: Nuclear solid	coal
radioactive fuel	A33: Fossil
A49: Gas	solid peat
synthesis	A34: Fossil
unspecified	solid municipal
A50: Gas	waste
synthesis furnace	A35: Fossil
gas	solid industrial
A51: Waste heat	and
and cold	commercial
unspecified	waste
A52: Waste heat	A36: Fossil
and cold By-	liquid
product in	unspecified A37: Fossil
industrial installation	A37: Fossil liquid crude oil
A53: Waste heat	A38: Fossil
and cold By-	liquid natural
product in power	
generation	gas liquids (NGL)
A54: Waste heat	A39: Fossil
and cold By-	liquid
product in tertiary	petroleum
sector	products
	A40: Fossil
	gaseous
	unspecified
	A41: Fossil
	gaseous
	natural gas
	A42: Fossil
	gaseous coal-
	derived gas
	A43: Fossil
	gaseous
	petroleum
	products
	A44: Fossil
	gaseous
	gaseous municipal gas
	municipal gas
	municipal gas plant
	municipal gas plant A45: Fossil gaseous process gas
	municipal gas plant A45: Fossil gaseous
	municipal gas plant A45: Fossil gaseous process gas
	municipal gas plant A45: Fossil gaseous process gas A46: Fossil
	municipal gas plant A45: Fossil gaseous process gas A46: Fossil heat
	municipal gas plant A45: Fossil gaseous process gas A46: Fossil heat unspecified
	municipal gas plant A45: Fossil gaseous process gas A46: Fossil heat unspecified A47: Fossil heat process heat
	municipal gas plant A45: Fossil gaseous process gas A46: Fossil heat unspecified A47: Fossil heat process
	municipal gas plant A45: Fossil gaseous process gas A46: Fossil heat unspecified A47: Fossil heat process heat

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Class	Attribute	RCMU registration details	RCMU market details	RCMU registration and market details
				A49: Gas synthesis unspecified A50: Gas synthesis furnace gas A51: Waste heat and cold unspecified A52: Waste heat and cold By-product in industrial installation A53: Waste heat and cold By-product in power generation A54: Waste heat and cold By-product in tertiary sector
		May be used Street where unit is located	Not used	businessType code C51) May be used only for
	street_Location.	is located		businessType code C51 Street where unit is located
		May be used Street number where unit is located	Not used	May be used only for businessType code C51
	streetNumber_L ocation.name			Street number where unit is located
		May be used City where unit is located	Not used	May be used only for businessType code C51
	city_Location.na me			City where unit is located
		May be used Postal code where unit is located	Not used	May be used only for businessType code C51
	postalCode_Loc ation.name	– Page 43 of 57 –		Postal code where unit is located

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Class	Attribute	RCMU registration details	RCMU market details	RCMU registration and market details
		May be used Country where unit is located	Not used	May be used only for businessType code C51
	country_Locatio n.name			Country where unit is located
		Mandatory in case that GPS coordinates are registered A03: WGS84	Not used	Mandatory in case that GPS coordinates are registered (only for businessType
	gPS_Location.g PS_CoordinateS ystem.mRID			code C51 ) A03: WGS84
		Mandatory in case that GPS coordinates are registered Latitude	Not used	Mandatory in case that GPS coordinates are registered (only for businessType
	gPS_Location.g PS_PositionPoin ts.xPosition			code C51) GPS coordinates
		Mandatory in case that GPS coordinates are registered	Not used	Optional in case that GPS coordinates are registered
		Longitude		(only for businessType code C51)
	gPS_Location.g PS_PositionPoin ts.yPosition			Additional GPS coordinates description
		Mandatory in case that GPS coordinates are registered	Not used	Mandatory in case that GPS coordinates are registered
		Altitude		Altitude
	gPS_Location.g PS_PositionPoin ts.zPosition			(only for businessType code C51)



Class	A 44 # : b 4 a	DOMU	DCMII merket	DOMU
Class	Attribute	RCMU registration details	RCMU market details	RCMU registration and market details
		Mandatory in case	Not used	Mandatory in
		that metering point	Not used	case that
		is registered		metering point
		g		is registered
		EIC-Z code of the		_
		Unit metering point		EIC-Z code of
		or national code.		the Unit
		Coding Scheme:		metering point or national
		A01 or National Coding Scheme		code.
		obuing benefic		Coding
				Scheme: A01
				or National
	marketEvaluatio			Coding
	nPoint.mRID			Scheme
	(Linked to			(only for
	Unit_Registered Resource)			businessType code C51)
Measurement		Mandatory in case	Not used	Mandatory in
s (Analog)		that CO2		case that CO2
		emissions are		emissions are
		registered		registered
		A23: CO2		A23: CO2
		emission		emission
				(Only for
	measurementTy			businessType code C51)
	pe unitSymbol	Mandatory in case	Not used	Mandatory in
	uniteynisor	that CO2		case that CO2
		emissions are		emissions are
		registered		registered
		GKH: grams per		GKH: grams
		kilowatt hour		per kilowatt
				hour
				(Only for
				businessType
				code C51)
	analogValues.va	Mandatory in case	Not used	Mandatory in
	lue	that CO2		case that CO2
		emissions are		emissions are
		registered		registered
		(0 in case of no		Used
		CO2 emission)		(0 in case of
				no CO2
				emission)
				(Only for
				businessType
				code C51)
Series_Period	timeInterval	Not used	Used	Used

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Class	Attribute	RCMU registration details	RCMU market details	RCMU registration and market details
	resolution	Not used	Delivery period (Only for businessType codes C52 and C53)	Delivery Period (Only for businessType codes C52 and C53)
Point	position	Not used	Used	Used
	quantity	Not used	Quantity	Quantity

483 484

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## 485 4.6.3 RCMU Timeseries Dependency Table 2/4

The dependency table below shows the different combinations for RCMU corporate credentials,
 RCMU facility address and RCMU aggregated capacity.

## 488 **Table 19 - RCMU Timeseries Dependency Table 2/4**

Class	Attribute	RCMU corporate	RCMU facility	RCMU
		credentials	address	aggregated capacity
Timeseries	mRID		Used	
		C51: Resource	C51: Resource	C51: Resource
		capacity unit	capacity unit	capacity unit
	businessType	0= 100		
	product		67000016: Active Pov	
	curveType	Not used	Not used	Not used
	ResourceCapaci tyMarketUnit_Re	EIC-W code	of the RCMU or nation	onal code.
	gisteredResourc	Coding Scheme	: A01 or National Co	ding Scheme
	e.mRID			
	resourceCapacit	Not used	Not used	Used
	yMarketUnit_Re			
	gisteredResourc			
	e.resourceCapac			
	ity.maximumCap			
	acity			
	resourceCapacit	Not used	Not used	MAW:
	yMarketUnit_Re			Megawatt
	gisteredResourc e.resourceCapac			
	ity.unitSymbol			
	resourceCapacit	Not used	Used	Not used
	yMarketUnit_Re		0000	
	gisteredResourc			
	e.location.name			
	marketEvaluatio	Not used	Mandatory in	Not used
	nPoint.mRID		case that	
	(Linked to		metering point is	
	ResourceCapaci		registered	
	tyMarketUnit_Re			
	gisteredResourc e)			
	resourceprovider	EIC-X code of the	Not used	Not used
	_MarketParticipa	Resource Provider	Not used	NOT USED
	nt.mRID			
	resourceprovider	Name of Resource	Not used	Not used
	_MarketParticipa	Provider		
	resourceprovider	Address of	Not used	Not used
	_MarketParticipa	Resource Provider		
	nt.streetAddress			
	resourceprovider	Phone of	Not used	Not used
	_MarketParticipa	Resource Provider		
	nt.phone1	Empil of Docourse	Notuced	Notuced
	resourceprovider	Email of Resource Provider	Not used	Not used
	_MarketParticipa nt.electronicAddr	FIOVICEI		
	ess			
	networkOperator	Not used	Not used	Not used
	_MarketParticipa			
	nt.mRID			
		1	1	



Class	Attribute	RCMU corporate credentials	RCMU facility address	RCMU aggregated capacity
	resourceCapacit yMechanismOpe rator_MarketPart icipant.mRID	Not used	Not used	Not used
	memberState_M arketParticipant. mRID	Not used	Not used	Not used
	initialRegistratio n_DateAndOrTi me.dateTime	Used	Used	Used
		Used (If no updates in RCMU, initial registration and registration is the same datetime)	Used (If no updates in RCMU, initial registration and registration is the same datetime)	Used (If no updates in RCMU, initial registration and registration is
	registration_Dat eAndOrTime.dat eTime			registration is the same datetime)
	lastVerification_ DateAndOrTime. dateTime	May be used when retrieving data	May be used when retrieving data	May be used when retrieving data
	primaryMarketPa rticipation_Mark etObjectStatus.s tatus	Not used	Not used	Not used
	secondaryMarke tParticipation_M arketObjectStatu s.status	Not used	Not used	Not used
	capacityMechani sm_MarketProdu ct.marketProduct Type	Not used	Not used	Not used
	clearanceNumbe r_Names.name	Not used	Not used	Not used
	measurement_U nit.name	Not used	Not used	Not used
ElegibilityPeri od (Time_Period	timeInterval	Not used	Not used	Not used
Unit_Register	mRID	Not used	Used	Not used
edResource	resourceCapacit y.maximumCapa city	Not used	Not used	Not used
	resourceCapacit y.unitSymbol	Not used	Not used	Not used
	technology_PSR Type.psrType	Not used	Not used	Not used
	Fuel.fuel	Not used	Not used	Not used
	street_Location. name	Not used	Used Street where unit is located	Not used



Class	Attribute	RCMU corporate credentials	RCMU facility address	RCMU aggregated capacity
		Not used	Used	Not used
			Street number	
	streetNumber_L		where unit is	
	ocation.name		located	
		Not used	Used	Not used
	city_Location.na		City where unit is	
	me		located	
		Not used	Used	Not used
			Postal code	
	postalCode_Loc		where unit is	
	ation.name		located	
		Not used	Used	Not used
	country_Locatio		Country where	
	n.name		unit is located	
		Not used	Used in case that	Not used
			GPS coordinates	
	gPS_Location.g		are registered	
	PS_CoordinateS		_	
	ystem.mRID		A03: WGS84	
		Not used	Used in case that	Not used
			GPS coordinates	
	gPS_Location.g		are registered	
	PS_PositionPoin			
	ts.xPosition		Latitude	
		Not used	Optional in case	Not used
			that GPS	
			coordinates are	
	gPS_Location.g		registered	
	PS_PositionPoin			
	ts.yPosition		Longitude	
		Not used	Used in case that	Not used
			GPS coordinates	
	gPS_Location.g		are registered	
	PS_PositionPoin			
	ts.zPosition		Altitude	
	marketEvaluatio	Not used	Not used	Not used
	nPoint.mRID			
	(Linked to			
	Unit_Registered			
	Resource)			
leasurement	measurementTy	Not used	Not used	Not used
s (Analog)	ре			
	unitSymbol	Not used	Not used	Not used
	analogValues.va	Not used	Not used	Not used)
	lue			
Series_Period	timeInterval	Not used	Not used	Not used
	resolution	Not used	Not used	Not used
Point	position	Not used	Not used	Not used
	quantity	Not used	Not used	Not used

489

# 490 4.6.4 RCMU Timeseries Dependency Table 3/4

491 The dependency table below shows the different combinations for RCMO where RCMU is492 located, RCMU CO2 emission and RCMU technology types.

493



#### 494 **Table 20 - RCMU Timeseries dependency table 3/4**

Class	Attribute	RCMO where	RCMU CO2	RCMU
		RCMU is located	emission	technology types
Timeseries	mRID		Used	
		C51: Resource capacity unit	C51: Resource capacity unit	C51: Resource capacity unit
	businessType			
	product	8716867000016: Active Power		
	curveType	Not used	Not used	Not used
	resourceCapacit yMarketUnit_Re	EIC-W code	of the RCMU or nation	onal code.
	gisteredResourc e.mRID	Coding Scheme	: A01 or National Co	ding Scheme
	resourceCapacit	Not used	Not used	Not used
	yMarketUnit_Re			
	gisteredResourc			
	e.resourceCapac			
	ity.maximumCap acity			
	resourceCapacit	Not used	Not used	Not used
	yMarketUnit_Re			
	gisteredResourc			
	e.resourceCapac			
	ity.unitSymbol			
	resourceCapacit	Not used	Not used	Not used
	yMarketUnit_Re			
	gisteredResourc			
	e.location.name			
	marketEvaluatio nPoint.mRID	Not used	Not used	Not used
	(Linked to ResourceCapaci			
	tyMarketUnit_Re			
	gisteredResourc			
	e)			
	resourceprovider	Not used	Not used	Not used
	_MarketParticipa nt.mRID			
	resourceprovider	Not used	Not used	Not used
	_MarketParticipa			
	nt.name			
	resourceprovider	Not used	Not used	Not used
	_MarketParticipa			
	nt.streetAddress			
	resourceprovider	Not used	Not used	Not used
	_MarketParticipa			
	nt.phone1			
	resourceprovider	Not used	Not used	Not used
	_MarketParticipa			
	nt.electronicAddr			
	ess			
	networkOperator	Not used	Not used	Not used
	_MarketParticipa			
	nt.mRID			
	resourceCapacit	EIC-X code of the	Not used	Not used
	yMechanismOpe	RCMO		
	rator_MarketPart	Coding Scheme:		
	icipant.mRID	A01		



Class	Attribute	RCMO where RCMU is located	RCMU CO2 emission	RCMU technology types
	memberState_M arketParticipant. mRID	Not used	Not used	Not used
	initialRegistratio n_DateAndOrTi me.dateTime	Used	Used	Used
	registration_Dat eAndOrTime.dat	Used (If no updates in RCMU, initial registration and registration is the same datetime)	Used (If no updates in RCMU, initial registration and registration is the same datetime)	Used (If no updates in RCMU, initial registration and registration is the same
	eTime lastVerification_ DateAndOrTime. dateTime	May be used when retrieving data	May be used when retrieving data	datetime) May be used when retrieving data
	primaryMarketPa rticipation_Mark etObjectStatus.s tatus	Not used	Not used	Not used
	secondaryMarke tParticipation_M arketObjectStatu s.status	Not used	Not used	Not used
	capacityMechani sm_MarketProdu ct.marketProduct Type	Not used	Not used	Not used
	clearanceNumbe r_Names.name	Not used	Not used	Not used
	measurement_U nit.name	Not used	Not used	Not used
ElegibilityPeri od (Time_Period )	timeInterval	Not used	Not used	Not used
Unit_Register edResource		Not used	EIC-W code of the Unit or national code.	EIC-W code of the Unit or national code.
	mRID		Coding Scheme: A01 or National Coding Scheme	Coding Scheme: A01 or National Coding Scheme
	resourceCapacit y.maximumCapa city	Not used	Not used	Not used
	resourceCapacit y.unitSymbol	Not used	Not used	Not used



	1	1	-
	Not used	Not used	B10: Hydro-
			electric pure
			pumped
			storage head
			installation
			B11: Hydro
			Run-of-river
			head
			installation
			B12: Hydro-
			electric storage
			head
			installation
			B13: Marine
			unspecified
			B14: Nuclear
			unspecifiedr
			B15: Other
			renewable
			B16: Solar
			unspecified
			B18: Wind
			Offshore
			B19: Wind
			onshore
			B20: Other
			unspecified
			B25: Energy
			storage
			B26: Demand
			Side Response
			B27:
			Dispatchable
			hydro resource
			B28: Solar
			photovoltaic
			B29: Solar
			concentration
			B30: Wind
			unspecified
			B31: Hydro-
			electric
			unspecified
			B32: Hydro-
			electric mixed
			pumped
			storage head
			installation
			B33: Marine
			tidal
			B34: Marine
			wave
			B35: Marine
			currents
			B36: Marine
			pressure
			B37: Thermal
			unspecified
			B38: Thermal
	nology_PSR		combined cycle
Ту	pe.psrType		gas turbine

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Class	Attribute	RCMO where	RCMU CO2	RCMU
		RCMU is located	emission	technology
				types
				with heat
				recovery
				B39: Thermal steam turbine
				with back-
				pressure
				turbine (open
				cycle)
				B40: Thermal
				steam turbine
				with
				condensation turbine (closed
				cycle)
				B41: Thermal
				gas turbine
				with heat
				recovery
				B42: Thermal
				internal combustion
				engine
				B43: Thermal
				micro-turbine
				B44: Thermal
				Stirling engine
				B45: Thermal
				fuel cell
				B46: Thermal steam engine
				B47: Thermal
				organic
				Rankine cycle
				B48: Thermal
				gas turbine
				without heat
				recovery B49: Nuclear
				heavy water
				reactor
				B50: Nuclear
				light water
				reactor
				B51: Nuclear
				breeder B52: Nuclear
				graphite
				reactor
	Fuel.fuel	Not used	Not used	Not used
	street_Location. name	Not used	Not used	Not used
	streetNumber_L	Not used	Not used	Not used
	ocation.name			
	city_Location.na	Not used	Not used	Not used
	me postalCode_Loc	Not used	Not used	Not used
	ation.name			



Class	Attribute	RCMO where RCMU is located	RCMU CO2 emission	RCMU technology types
	country_Locatio n.name	Not used	Not used	Not used
	gPS_Location.g PS_CoordinateS ystem.mRID	Not used	Not used	Not used
	gPS_Location.g PS_PositionPoin ts.xPosition	Not used	Not used	Not used
	gPS_Location.g PS_PositionPoin ts.yPosition	Not used	Not used	Not used
	gPS_Location.g PS_PositionPoin ts.zPosition	Not used	Not used	Not used
	marketEvaluatio nPoint.mRID (Linked to Unit_Registered Resource)	Not used	Not used	Not used
Measurement s (Analog)	measurementTy pe	Not used	A23: CO2 emission	Not used
	unitSymbol	Not used	GKH: grams per kilowatt hour	Not used
	analogValues.va lue	Not used	Used (0 in case of no CO2 emission)	Not used
Series_Period	timeInterval	Not used	Not used	Not used
	resolution	Not used	Not used	Not used
Point	position	Not used	Not used	Not used
	quantity	Not used	Not used	Not used

495

# 496

# 497 4.6.5 RCMU Timeseries Dependency Table 4/4

The dependency table below shows the different combinations for RCMU eligibility periods,
 RCMU allocated entry capacities and RCMU capacity obligations.

500

## 501 **Table 21 - RCMU Timeseries Dependency Table 4/4**

Class	Attribute	RCMU elegibility	RCMU allocated	RCMU
		periods	entry capacities	capacity obligations
Timeseries	mRID		Used	
		C51: Resource	C52: Resource	C53: Resource
		capacity unit	entry capacity	capacity
	businessType		data	obligation data
	product	871686	67000016: Active Pov	wer
		Not used	A01: Sequential	A01:
			fixed size block	Sequential
			A03: Variable	fixed size block
			sized block	A03: Variable
	curveType			sized block
	resourceCapacit yMarketUnit_Re	EIC-W code	of the RCMU or natio	onal code.
	gisteredResourc e.mRID	Coding Scheme: A01 or National Coding Scheme		



Class	Attribute	RCMU elegibility periods	RCMU allocated entry capacities	RCMU capacity obligations
	resourceCapacit yMarketUnit_Re gisteredResourc e.resourceCapac ity.maximumCap acity	Not used	Not used	Not used
	resourceCapacit yMarketUnit_Re gisteredResourc e.resourceCapac ity.unitSymbol	Not used	Not used	Not used
	resourceCapacit yMarketUnit_Re gisteredResourc e.location.name	Not used	Not used	Not used
	marketEvaluatio nPoint.mRID (Linked to ResourceCapaci tyMarketUnit_Re gisteredResourc e)	Not used	Not used	Not used
	resourceprovider _MarketParticipa _nt.mRID	Not used	Not used	Not used
	resourceprovider _MarketParticipa nt.name	Not used	Not used	Not used
	resourceprovider _MarketParticipa nt.streetAddress	Not used	Not used	Not used
	resourceprovider _MarketParticipa nt.phone1	Not used	Not used	Not used
	resourceprovider _MarketParticipa nt.electronicAddr ess	Not used	Not used	Not used
	networkOperator _MarketParticipa nt.mRID	Not used	Not used	Not used
	resourceCapacit yMechanismOpe rator_MarketPart icipant.mRID	Not used	Not used	Not used
	memberState_M arketParticipant. mRID	EIC-Y code of the member state	EIC-Y code of the member state	EIC-Y code of the member state
	initialRegistratio n_DateAndOrTi me.dateTime	Used	Used	Used



Class	Attribute	RCMU elegibility periods	RCMU allocated entry capacities	RCMU capacity obligations
		Used	Used	Used
		(If no updates in	(If no updates in	(If no updates
		RCMU, initial	RCMU, initial	in RCMU,
		registration and	registration and	initial
		registration is the	registration is the	registration
		same datetime)	same datetime)	and
	registration_Dat	,	,	registration is
	eAndOrTime.dat			the same
	eTime			datetime)
	lastVerification_	May be used when	May be used	May be used
	DateAndOrTime.	retrieving data	when retrieving	when retrieving
	dateTime	U U	data	data
	primaryMarketPa	Optional	Optional	Optional
	rticipation_Mark	A61: Primary	A61: Primary	A61: Primary
	etObjectStatus.s	market	market	market
	tatus			
	secondaryMarke	Optional	Optional	Optional
	tParticipation_M	A62: Secondary	A62: Secondary	A62:
	arketObjectStatu	market	market	Secondary
	s.status			market
		Mandatory only if	Mandatory only if	Mandatory only
		market capacity	capacity	if capacity
		mechanism	mechanism	mechanism
		product is	product is	product is
		registered	registered	registered
			-	-
		A08: Market wide	A08: Market wide	
		resource capacity	resource capacity	A08: Market
		mechanism	mechanism	wide resource
		A09: Strategic	A09: Strategic	capacity
		reserve resource	reserve resource	mechanism
		capacity	capacity	A09: Strategic
		mechanism	mechanism	reserve
		A10: Other	A10: Other	resource
		resource capacity	resource capacity	capacity
		mechanism	mechanism	mechanism
	capacityMechani			A10: Other
	sm_MarketProdu			resource
	ct.marketProduct			capacity
	Туре			mechanism
	clearanceNumbe r_Names.name	Optional	Optional	Optional
	measurement_U nit.name	Not used	Not used	Not used
ElegibilityPeri		Used	Not used	Not used
od (Time_Period				
)	timeInterval			
Unit_Register	mRID	Not used	Not used	Not used
edResource	resourceCapacit	Not used	Not used	Not used
	y.maximumCapa			
	city			
	resourceCapacit	Not used	Not used	Not used
	y.unitSymbol			
	technology_PSR	Not used	Not used	Not used
	Type.psrType			
	Fuel.fuel	Not used	Not used	Not used



Class	Attribute	RCMU elegibility periods	RCMU allocated entry capacities	RCMU capacity obligations
	street_Location. name	Not used	Not used	Not used
	streetNumber_L ocation.name	Not used	Not used	Not used
	city_Location.na me	Not used	Not used	Not used
	postalCode_Loc ation.name	Not used	Not used	Not used
	country_Locatio n.name	Not used	Not used	Not used
	gPS_Location.g PS_CoordinateS ystem.mRID	Not used	Not used	Not used
	gPS_Location.g PS_PositionPoin ts.xPosition	Not used	Not used	Not used
	gPS_Location.g PS_PositionPoin ts.yPosition	Not used	Not used	Not used
	gPS_Location.g PS_PositionPoin ts.zPosition	Not used	Not used	Not used
	marketEvaluatio nPoint.mRID (Linked to Unit_Registered	Not used	Not used	Not used
	Resource)			
Measurement s (Analog)	measurementTy pe	Not used	Not used	Not used
	unitSymbol	Not used	Not used	Not used
	analogValues.va lue	Not used	Not used	Not used
Series_Period	timeInterval	Not used	Used	Used
	resolution	Not used	Delivery period	Delivery Period
Point	position	Not used	Used	Used
	quantity	Not used	Quantity	Quantity

502

503

# 504 4.6.6 RCMU History data

505 Note: Time interval in header (MarketDocument class) shows the requested period of time.

506