
Terms and Conditions for Voltage Service Providers (T&C VSP)

pursuant to Articles 4 and 234 of the Royal Decree of 22 April 2019, as amended from time to time, establishing a federal technical regulation for the management of and access to the transmission grid (hereinafter referred to as 'Federal Grid Code')

Date of submission for regulatory approval: 17/04/2020



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THE BELGIAN TRANSMISSION SYSTEM OPERATOR ELIA, TAKING INTO ACCOUNT THE FOLLOWING

Whereas

- (1) ELIA Transmission Belgium NV/SA (hereinafter referred to as 'ELIA') is responsible for the operation of the Belgian transmission system, for which it holds a right of ownership or at least a right of use. ELIA has been appointed Transmission System Operator (TSO), in accordance with the Law of 29 April 1999 concerning the organisation of the electricity market (hereinafter referred to as the "Electricity Law"), and guarantees the safety, reliability and efficiency of the Belgian transmission system.
- (2) This document constitutes a proposal by ELIA regarding the terms and conditions applicable to Voltage Service Providers or 'VSPs' (hereinafter referred to as the 'T&C VSP') and includes the requirements set up in Article 234 of the Federal Grid Code:
 - (a) The terms and conditions applicable to VSPs
 - (b) the technical specifications for the provision of the service for reactive power and voltage management,
 - (c) the participation conditions,
 - (d) the mechanism for the constitution of the service,
 - (e) and, if any, the modalities for the compensation with regard to the participation to this service.
- (3) Pursuant to the Electricity Law, the Commission for Electricity and Gas Regulation (hereinafter referred to as 'CREG') is the relevant regulatory authority, tasked under Article 4 of the Federal Grid Code, for approving the terms and conditions related to voltage services.
- (4) Pursuant to Article 4(1) of the Federal Grid Code, the regulatory authority is competent to approve the proposals of model contracts, among which contracts for the provision of ancillary services other than balancing services.
- (5) Pursuant to Article 4(2) of the Federal Grid Code, the regulatory authority shall decide on the proposal of T&C VSP within a reasonable timeframe from the date of submission by the TSO.
- (6) Pursuant to Article 223 of the Federal Grid Code, the services for reactive power and voltage management are ancillary services. Articles 234 of the Federal Grid Code is applicable to these services.
- (7) The TSO contracts these ancillary services according to Article 12 *quinquies* of the Electricity Law.
- (8) Elia will publish these T&C VSP on its website in the following reference languages: Dutch and French.

SUBMIT THE FOLLOWING PROPOSAL TO THE COMPETENT REGULATORY AUTHORITY

Article 1

Subject matter and scope

- (1) The T&C VSP are the proposed terms and conditions applicable to voltage service providers or VSPs pursuant to Article 4 and 234 of the Federal Grid Code.
- (2) Pursuant to Article 4 of the Federal Grid Code, the proposal for model contract for the ancillary service of reactive power and voltage management must be submitted to CREG for approval.
- (3) Pursuant to Article 234 of the Federal Grid Code, the terms and conditions to act as voltage service providers, the technical specifications for the provision of the service for reactive power and voltage management, the participation conditions and the mechanism for the constitution of the service are included in the model contract as stated in paragraph (2).

Article 2

Implementation Date

- (1) These T&C VSP shall enter into force one month after the approval by CREG and not before January 1st 2021.

Article 3

Language

- (1) The reference languages for the T&C VSP are Dutch and French. The T&C VSP will be made available to affected market players in English for information and consultation purposes.

Article 4

General provisions

- (1) In these T&C VSP, unless the context require otherwise:
 - (a) The singular indicates the plural and vice versa;
 - (b) References to one gender include all other genders;
 - (c) The table of contents, titles and headings in these T&C VSP are for convenience only and do not affect their interpretation;
 - (d) The word "including" and its variations are to be construed without limitation;
 - (e) Any reference to legislation, regulations, directive, order, instrument, code or any other enactment shall include any modification, extension or re-enactment of it then in force.

APPENDIX : MODEL CONTRACT FOR VOLTAGE AND REACTIVE POWER CONTROL SERVICE

Contract for Voltage & Reactive Power Control Service

“VSP Contract”

Contract Reference [ContractReference]

between

[Company], a company established under **[Country]** law with registered offices at **[Address]**, company registration number **[Number]** and validly represented by **[Name1]** and **[Name2]**, in their respective capacity of **[Role1]** and **[Role2]**;

hereinafter referred to as the "**[ServiceProvider]**",

and

ELIA Transmission Belgium N.V./S.A., a company established under Belgian law with registered offices at Keizerslaan 20, B-1000 Brussels, registered at the Crossroad Bank for Enterprises under number 0476.388.378 and represented by **[Name1]** and **[Name2]**, in their respective capacities of **[Role1]** and **[Role2]**;

hereinafter referred to as "Elia",

Elia and the **[ServiceProvider]** may also hereinafter be referred to individually as "the Party" and collectively as "the Parties".

Whereas:

- Elia is responsible for the operation of the Belgian transmission system over which it has an ownership right or, at least, a right of use (hereinafter referred to as the “Elia Grid”);
- Elia has been appointed as Transmission System Operator (hereinafter referred to as the “TSO”), in accordance with the Belgian law of 29 April 1999 concerning the organisation of the electricity market (hereinafter referred to as the “Electricity Act”) and supervises the safety, reliability and efficiency of the Elia Grid;
- Elia must therefore safeguard operational security, frequency quality and the efficient use of the interconnected system and resource – in accordance with the Commission Regulation (EU) 2017/1485 of 2 August 2017 establishing a guideline on electricity transmission system operation (hereinafter referred to as “SOGL”);
- [VSP] has expressed its willingness to become a Voltage Service Provider (“VSP”) according to the terms and conditions of this Contract for the Voltage and Reactive Power Control Service;
- The Parties understand that this Contract is not a contract granting access to the Elia Grid;
- The Service is procured as part of the Grid User’s obligation and/or voluntarily, according to article 234 of the Federal Grid Code and to article 12 *quinquies* of the Electricity Act;
- The General and Specific Conditions as detailed hereafter shall govern the Contract, as well as the rights and obligations of the Parties relating to the Voltage and Reactive Power Control Service , without prejudice to the applicable provisions of the Federal Grid Code or, where appropriate, without prejudice to compliance with the relative Sensitivity Coefficient set in Annex 1 in accordance with the criteria defined to that end in the Connection Contract for the Technical Unit concluded with Elia;
- This Contract falls under the Terms and Conditions for Voltage and Reactive Power Control Services.

the following points have been agreed:

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PART I - GENERAL CONDITIONS

ART. I.1 DEFINITIONS

Except where there is further specification aimed at application for the purposes of the present Contract, and without ignoring the stipulations of public order, the concepts defined in the Electricity Act, the electricity decrees and/or ordinances in relation to the organization of the electricity market and/or the various applicable Grid Codes and EU network codes and guidelines, as amended from time to time, are also included for the purposes of the Contract in the sense of these statutory or regulatory definitions.

In addition, the following definitions apply for the purposes of the Contract:

Annex	Any annex to the present Contract;
Article or Art.	Any article of the present Contract;
CACM	The Commission Regulation (EU) 2015/1222 of 24 July 2015 establishing a guideline on capacity allocation and congestion management;
Contract	The present Contract, including its Annexes;
CREG	The Commission for Electricity and Gas Regulation, i.e. the Belgian national regulatory authority;
Direct Damage	Any damage, with the exclusion of Indirect Damage, directly and immediately resulting from any contractual breach and/or fault within the framework of or as a result of the execution of the Contract, on any grounds whatsoever (contractual or extra-contractual). The said fault being one, which under similar circumstances, an experienced, professional Service Provider or TSO, respectively, acting according to the rules and taking all reasonable precautions would in no case have committed;
EBGL	The Commission Regulation (EU) 2017/2195 of 23 November 2017 establishing a guideline on electricity balancing;
Electricity Act	The Belgian law of 29 April 1999 concerning the organisation of the electricity market (« Loi du 29 avril 1999 relative à l'organisation du marché de l'électricité, <i>M.B.</i> 11.05.1999 » / « Wet van 29 april 1999 betreffende de organisatie van de elektriciteitsmarkt, <i>B.S.</i> 11.05.1999 »), as amended from time to time;
E&R NC	Commission Regulation (EU) 2017/2196 of 24 November 2017 establishing a network code on electricity emergency and restoration;

General Conditions	Part I to the present Contract. The General Conditions are identical in the following contracts for ancillary services to be concluded by Elia: the contracts for balancing services (BSP – “Balancing Service Provider” contracts for FCR – “Frequency Containment Reserve”, aFRR “automatic Frequency Restoration Reserve” and mFRR – “manual Frequency Restoration Reserve”), the contracts for restoration services (RSP – “Restoration Service Provider”), the contracts for voltage and reactive power control services (VSP – “Voltage Service Provider”) and the contracts for services related to congestion management (OPA – “Outage Planning Agent” and SA – “Scheduling Agent”);
Grid Codes	The Federal Grid Code for Transmission (adopted in the form of royal decree on the basis of article 11 of the Electricity Act – currently the “Arrêté royal du 22 avril 2019 établissant un règlement technique pour la gestion du réseau de transport de l’électricité et l’accès à celui-ci, <i>M.B. 29.04.2019</i> ” / “Koninklijk besluit van 22 april 2019 houdende een technisch reglement voor het beheer van het transmissienet van elektriciteit en de toegang ertoe, <i>B.S. 29.04.2019</i> ”), as amended from time to time, and the grid codes for local and regional transmission, as amended from time to time;
Indirect Damage	Any indirect damage or consequential damage, such as, but not limited to loss of revenue, loss of profit, loss of data, loss of business opportunities, loss of (prospective) clients, missed savings;
Law of 2 August 2002	The Law of 2 August 2002 against payment arrears in commercial transactions (“Loi du 2 août 2002 concernant la lutte contre le retard de paiement dans les transactions commerciales, <i>M.B. 7.08.2002</i> ” / “Wet betreffende de bestrijding van de betalingsachterstand bij handelstransacties, <i>B.S. 7.08.2002</i> ”), as amended from time to time;
Service(s)	The service(s) and tasks as described in the Specific Conditions of the present Contract and as provided by the Service Provider;
Service Provider	The Service Provider as identified on the first page of the present Contract;
SOGL	The Commission Regulation (EU) 2017/1485 of 2 August 2017 establishing a guideline on electricity transmission system operation;
Specific Conditions	Part II of the present Contract, supplemented by any annexes;
Terms and Conditions	The terms and conditions as required by, and developed in accordance with, the applicable European regulations. The present Contract constitutes an appendix to the Terms and Conditions as identified in the Whereas section of the present Contract;
Working Day	Any calendar day except for Saturday, Sunday and Belgian public holidays.

ART. I.2 SCOPE OF SERVICES AND CONTRACTUAL STRUCTURE

I.2.1 Scope of Services

By the signature of the present Contract, the Service Provider undertakes to provide the Service(s) in accordance with the General and Specific Conditions as provided for in this Contract.

The present Contract between the Parties lays down their mutual rights and obligations in relation to the procurement by Elia from the Service Provider and the eventual provision by the Service Provider to Elia of the Service(s).

I.2.2 Structure of the Contract

The present Contract is composed of a first part containing the General Conditions and of a second part containing the Specific Conditions for the Services, supplemented by any annexes.

The Parties shall ensure that the proper performance of this Contract is always based on the existence and proper performance of the requisite contractual agreements, if any, with third parties involved.

ART. I.3 ADDITIONAL RULES OF INTERPRETATION

By signing this Contract, the Service Provider explicitly renounces to apply its own general conditions, special or otherwise, regardless of the time when they were issued or the form of their issuance.

The substantiation in this Contract of a specific obligation or stipulation listed in the applicable legislation shall in no way be considered as derogating from the obligations or stipulations which, under the applicable legislation, must be applied to the relevant situation.

In this Contract, including its annexes, unless the context require otherwise:

- The singular indicates the plural and vice versa;
- References to one gender include all other genders;
- The table of contents, titles and headings in this Contract are for convenience only and do not affect their interpretation;
- The word “including” and its variations are to be construed without limitation;
- Any reference to legislation, regulations, directive, order, instrument, code or any other enactment shall include any modification, extension or re-enactment of it then in force.

ART. I.4 ENTRY INTO FORCE AND DURATION OF THIS CONTRACT

I.4.1 Entry into force of this Contract

This Contract shall enter into force once it has been validly signed by all Parties, provided the Terms and Conditions to which this Contract relates have already entered into force. Otherwise, this Contract shall enter into force, once validly signed by all Parties, on the implementation date of such Terms and Conditions.

Once this Contract has entered into force between the Parties, the Parties shall be bound by the General Conditions as detailed under Part I and the Specific Conditions as detailed under Part II of this Contract, supplemented by any annexes. This is without prejudice to the fact that Part II might foresee a later start date for the provision of certain Services.

Part I - General Conditions

Once this Contract has entered into force between the Parties, it supersedes all previous agreements and documents exchanged between the Parties relating to the same subject matter.

I.4.2 Duration of the Contract

Without prejudice to Art.I.11 and without prejudice to the applicable legislation and regulations, the duration of this Contract is specified in Part II on the Specific Conditions.

ART. I.5 INVOICING AND PAYMENT

I.5.1 Invoicing matters – General instructions

Without prejudice to specific instructions regarding invoicing matters as may be provided for under the Specific Conditions of this Contract, each invoice sent under this Contract shall include at least the following items:

- 1) Full name and address of both the invoicing Party and the invoiced Party;
- 2) VAT number of both the invoicing Party and the invoiced Party;
- 3) Invoiced amount, valued in euro;
- 4) Bank account and bank address (including IBAN and BIC) on which the relevant payment shall be made;
- 5) Invoice number;
- 6) Invoice issue date;
- 7) Designation of the Service and the period on the invoice;
- 8) Tax rate and tax amount separately, if any;
- 9) Specific constraint for invoicing, required by article 226 of Directive 2006/112/CE, if any, e.g. indication of the reference to the applicable provision of the Directive where the supply of services is subject to the VAT reverse charge procedure;
- 10) Reference if required by the invoiced Party;
- 11) Payment term in accordance with paragraph 5.2 hereafter; and
- 12) Specific items as listed in any invoicing section provided for under the Specific Conditions of this Contract.

The absence of one of the abovementioned stipulations shall nullify the invoice and render it valueless. In such a case, the invoiced Party reserves the right to return the invoice to the invoicing Party within a period of 15 (fifteen) Working Days. Returning the invoice in this way shall constitute rejection of the invoice, without any other reaction from the invoiced Party being necessary. Failure by the invoicing Party to observe the abovementioned stipulations regarding invoicing will give rise to an incorrect invoice, which will be the subject of a credit note to invoiced Party. The invoicing Party may then send a new and corrected invoice.

I.5.2 Payment matters

Payments will be made within 30 calendar days following the end of the month in which the invoice is received (this is the due date of the invoice). The invoiced Party shall pay the invoicing Party by direct

Part I - General Conditions

transfer to the stated bank account. Within the scope of this Article, an invoice will be considered received on the third Working Day following the date when the invoice was sent (postmark will serve as proof in case of a paper invoice sent by post – in case of an electronic invoice the date the invoice was submitted in the electronic system or sent by email will apply).

Any objection regarding the amount of an invoice must, in order to be admissible, be sent by registered letter to the invoicing Party before the due date of the disputed invoice as set above. The reasons for the objection shall be described as comprehensibly and in as much detail as is reasonably possible. If the value of the invoice is disputed, the undisputed part of the invoice shall still be paid. The Parties will discuss in good faith in order to reach an agreement on the disputed amount of the invoice within thirty (30) Working Days of the receipt of the registered letter, failure of which Art. I.13 will apply.

The amount subject of an objection shall be paid within 30 calendar days following the end of the month in which 1) the agreement is reached in respect of the dispute or 2) the decision has been adopted by which the dispute is definitively settled between the Parties according to Art.I.13. The Parties undertake not to invoke the exception of non-performance (“exceptio non adimpleti contractus”) in order to suspend the performance of their respective obligations during the dispute.

I.5.3 Interest for delayed payment

Late payment will automatically and without notice of default incur interest on the total amount of the invoice as specified in article 5 of the Law of 2 August 2002 from the day following the due date, up to and including the day when payment in full is made.

ART. I.6 LIABILITY

I.6.1 . General principles

Without prejudice to any obligation of result provided for under this Contract (such as confidentiality and payment obligations), as the case may be, and without prejudice to the application of a penalty system as provided by the Contract, the provision of the Services by the Service Provider is an obligation of means (“middelenverbintenis – obligation de moyens”).

The Parties shall do their utmost effort, during the lifetime of the Contract, to prevent damage by one Party to the other and, as the case may be, to limit it.

I.6.2 Direct Damages

The Parties to this Contract shall be liable to one another for for any Direct Damage . The Party in breach and/or at fault will indemnify the other Party and compensate it for any Direct Damage, including for claims by third parties in relation to such Direct Damage. Except in a case of deception or deliberate fault, the Parties will under no circumstances be liable to the other Party for compensating or indemnifying the other Party, including for claims by third parties, for Indirect Damage.

I.6.3 Process

As soon as one of the Parties has knowledge of any claim to pay compensation, including a claim for compensation arising from a claim by a third party, for which the latter might institute proceedings against the other Party, that Party shall inform the other Party thereof without delay. This notification shall be made by means of a registered letter, mentioning the nature of the claim, the amount thereof (if known) and the method of calculation – all in reasonable detail and with reference to the legislative, regulatory or contractual

provisions on which the claim might be based. In case of third party claim, the defaulting Party shall fully cooperate with the defending Party in such response and defense as reasonably required.

I.6.4 Caps

Any compensation due, as the case may be, by any Party is in any case limited to a maximum of twice the value of the Contract per year irrespective of the number of claims, the amount of which cannot exceed €12.5 million (twelve and a half million Euro) per year and per Party. This cap is without prejudice to the caps applicable for contractual third party claims.

ART. I.7 EMERGENCY AND FORCE MAJEURE

I.7.1 Emergency Situation

In case of an emergency situation (as defined in the applicable legislation and regulations), Elia is entitled and/or obliged to take all the measures provided for in the applicable legislation and regulations. In case of contradictions with the provisions of this Contract, such measures as foreseen in the applicable legislation and regulations shall prevail on the rights and obligations of this Contract.

I.7.2 Alert, Emergency, Black-out and Restoration state

When the system is in alert, emergency, black-out or restoration state (as defined in the applicable legislation and regulations¹), Elia is entitled and/or obliged to take all the measures provided for in the applicable legislation and regulations, including under certain circumstances the suspension of market activities as provided for in the applicable legislation and regulations. In case of contradictions with the provisions of this Contract, such measures as foreseen in the applicable legislation and regulations shall prevail on the rights and obligations of this Contract.

I.7.3 Force Majeure

Without prejudice to the rights and obligations of the Parties in the cases as referred to under Art. I.7.1 and 1.7.2, and as defined in the applicable legislation and/or regulations, and without prejudice to the application of the rescue and restoration provisions, as defined in the applicable legislation and/or regulations, the Parties will be discharged of their respective obligations under this Contract in a case of force majeure that prevents the performance of their obligations under this Contract, either partly or entirely, with the exception of the financial obligations that arose before the force majeure event. This suspension of the obligations will only last as long as the force majeure event.

The term “force majeure” shall mean, without prejudice to the definition of force majeure in applicable legislation and/or regulations, any unforeseeable or unusual event or situation beyond the reasonable control of a Party, and not due to a fault of the Party, which cannot be avoided or overcome with reasonable foresight and diligence, which cannot be solved by measures which are from a technical, financial or economic point of view reasonably possible for the Party, which has actually happened and is objectively verifiable, and which makes it impossible for the Party to fulfil, temporarily or permanently, its obligations in accordance with this Contract and which occurred after conclusion of the Contract.

¹ Including article 72 of CACM; article 16.2 of the Regulation (EC) No 714/2009 of the European Parliament and of the Council of 13 July 2009 on conditions for access to the network for cross-border exchanges in electricity and repealing Regulation (EC) No 1228/2003 and article 16.2 of the Regulation (EU) 2019/943 of the European Parliament and of the Council of 5 June 2019 on the internal market for electricity.

The application of market mechanisms, such as imbalance prices or the application of high prices in a normal market state, cannot be qualified as force majeure.

The following situations, among others, will be considered as force majeure, but only if they comply with the conditions for force majeure as provided for in the second paragraph of Art. 1.7.3:

- natural disasters arising from earthquakes, floods, storms, cyclones or other climatologically exceptional situations recognized as such by a public authority habilitated for this;
- a nuclear or chemical explosion and its consequences;
- exceptional hazards (or “hors catégorie” hazards) during which the sudden unavailability of elements of the grid or of an electricity production unit is caused by reasons other than aging, lack of maintenance or qualification of the operators; including the unavailability of the IT system, whether or not caused by a virus, when all preventive measures have been taken considering the state of the art ;
- the temporary or continuing technical impossibility for the grid to exchange electricity because of disruptions within the control area caused by electrical currents resulting from energy exchanges within another control area or between two or more other control areas and of which the identity of the market participants involved in those energy exchanges is unknown by Elia and which Elia could not reasonably be expected to know;
- the impossibility to operate the grid, installations that from a functional point of view are part of it, or installations of the Service Provider, due to a collective dispute that gives rise to a unilateral measure by employees (or groups of employees) or any other labour dispute;
- fire, explosion, sabotage, acts of terrorism, acts of vandalism, damage caused by criminal acts, criminal coercion and threats of a similar nature or acts having the same consequences;
- state of war (declared or not), threat of war, invasion, armed conflict, blockade, revolution or uprising; and
- The situation in which a competent authority invokes urgency and imposes exceptional and temporary measures on the system operators and/or grid users, such as measures needed in order to maintain or restore the safe and efficient operation of the grids, including the order to shed load in case of a shortage.

The Party that invokes a situation of force majeure shall inform the other Party as soon as possible, by phone and/or by mail, of the circumstances following which it cannot fulfil its obligations, either wholly or in part, how long such non-fulfilment might reasonably be expected to last, and of the measures it has taken to counteract the situation.

Nevertheless, the Party that invokes a situation of force majeure shall do everything possible to limit the consequences of the non-fulfilment of its obligations towards the other Party, the transmission system and third parties and to once again fulfil its obligations.

If the period of force majeure persists for 30 (thirty) successive days or more, and a Party, as a result of the force majeure situation acknowledged by both Parties, is unable to fulfil its essential obligations of the Contract, the other Party may terminate the Contract with immediate effect by a reasoned registered letter.

ART. 1.8 CONFIDENTIALITY

I.8.1 No divulgation of confidential information

The Parties and/or their employees shall treat any information that they exchange with one another within the framework or in relation to the Contract in the strictest confidence and not divulge it to third parties unless at least one of the following conditions is met:

Part I - General Conditions

- if one of the Parties is called to give evidence in court or in their relations with the competent regulatory, administrative and judicial authorities. The Parties shall, as far as possible, inform each other of the situation in advance, and will reach an agreement concerning the form and content of the communication of this information;
- if a prior written agreement has been obtained from the Party issuing the confidential information;
- with regard to Elia, in consultation with operators of other grids or within the framework of contracts and/or rules with the foreign grid operators or regional security coordinators/regional coordination centers, insofar as necessary and where anonymization is not possible and insofar as the addressee of that information undertakes to accord the same degree of confidentiality to that information as that accorded by Elia;
- if such information is easily and normally accessible or available to the public;
- if the divulgence of such information by a Party to persons such as subcontractors and/or their employees and/or their representatives and/or regional security coordinators/regional coordination centers is essential for technical or safety reasons, insofar as those addressees are bound by rules of confidentiality that appropriately guarantee the protection of confidentiality;
- if the information is already legally known by a Party and/or their employees and work agents at the time of transmission, and which has not been communicated by the notifying Party, prior to the transmission, directly, indirectly, or by a third party by breaching an obligation of confidentiality;
- the information which, after transmission, has been brought to the attention of the recipient Party and/or its staff and work agents via a third party, without breaching an obligation of confidentiality with regard to the notifying Party;
- the divulgence of the information is foreseen by applicable legislation and/or regulation;
- the divulgence of aggregated and anonymized information and data.

This Article is without prejudice to the specific provisions on confidentiality obligations regarding the operator of the Belgian electricity transport network (at both federal and regional levels) imposed by the applicable legislation and regulation.

A Party must not, for reasons of confidentiality, refuse to divulge information that is essential and pertinent to the implementation of the Contract. The other Party to whom such information is communicated guarantees that it will maintain the confidential nature thereof.

The Service Provider declares and guarantees that the confidential information will only be used for the purposes of establishing the bid/performance of the Services and not for other purposes.

Both Parties shall take the requisite measures to ensure that this confidentiality obligation shall also be strictly observed by their employees, as well as any person who, without being an employee of one of the Parties but for whom that Party is nonetheless responsible, might properly receive such confidential information. In addition, confidential information shall only be divulged on a "need-to-know" basis, and reference will always be made thereby to the confidential nature of the information.

I.8.2 Infringements to confidentiality obligations

Any infringement to this confidentiality obligation shall be considered as serious misconduct by the Party that violates that obligation. Such infringement shall give rise to the payment of compensation for any Direct and Indirect, material and immaterial damage (in deviation from Art. I.6.2) that the other Party can reasonably demonstrate, subject to the caps of Art. I.6.4.

Part I - General Conditions

I.8.3 Ownership

Each of the Parties shall maintain full ownership of that confidential information, even when it has been divulged to other Parties. The transmission of the confidential information does not entail any transfer of property nor of any other right other than those mentioned in the Contract.

I.8.4 Duration

Without prejudice to the applicable legislation and regulations, the aforementioned confidentiality obligations remain in force for a period of 5 (five) years after termination of the Contract.

I.8.5 Phone recordings

The Parties agree that real-time telephone communications will be recorded at their respective dispatching centers. The Parties accept the need for this communication to be recorded and the principle underpinning it. As regards probative value, the Parties acknowledge that the recordings of these communications shall be admissible as proof in the event of a dispute settlement relating to this Contract. Both Parties shall notify their respective staff about the existence and/or possibility of recordings as well as about the existence and/or possibility of recordings by the other Party.

ART. I.9 OBLIGATION OF INFORMATION

The Parties undertake, for the duration of this Contract, to inform one another as soon as possible of any event or information that the Party who has knowledge thereof must reasonably consider as an event or information that might have a detrimental effect on the Contract or on the fulfilment of the obligations specified in the Contract towards the other Party.

ART. I.10 REVIEW

I.10.1 Amendments to the main body of this Contract (General and Specific Conditions) and generally applicable Annexes

This Contract can only be modified in the course of the process for amendments to the Terms and Conditions to which it relates and following the processes foreseen therefor in the applicable regulations and legislations.

After approval by the CREG of the amendments to the Contract, including the proposed date of entry into force, these amendments shall enter into force, as will be indicated in the implementation plan of the amended Terms and Conditions and as confirmed in the notification via registered mail with acknowledgement of receipt, sent by Elia to the Service Provider in case the amendments would apply to existing contractual relationships for the subject matter which is ruled by this Contract, but however not earlier than 14 days after such notification.

Without prejudice to the competences of the competent authorities and without prejudice to the applicable legislation and regulations, in case the Service Provider does not agree with the amendments that would be applicable to the Contract currently in force, the Service Provider may terminate the Contract.

Part I - General Conditions

I.10.2 Amendments to party-specific Annexes

Without prejudice to obligations imposed by the applicable legislation and regulations, any Annex containing party-specific information can be modified in writing after agreement by both Parties (but only for the party-specific information itself).

Any modification to the contact information taken up under the relevant Annex to this Contract (i.e. contact person, address, e-mail, phone and fax numbers) must be communicated to the other Party no later than 7 (seven) Working Days before the date on which that modification comes into effect. Both Parties shall keep the contact details as provided for under that Annex up to date throughout the validity of the Contract. These exchanges and updates can be done via e-mail and do not require a formal written amendment process of the Contract.

ART. I.11 PREMATURE DISSOLUTION IN CASE OF SERIOUS DEFAULT

The Contract may be suspended or terminated unilaterally by one of the Parties (the 'impacted Party') without judicial intervention if the other Party (the 'defaulting Party') does not rectify a serious breach or fault within 15 (fifteen) Working Days after the defaulting Party has received a registered letter with proof of receipt in which the serious breach or fault is mentioned and in which that Party was notified that the Contract would be suspended or terminated without any further notice if the aforementioned serious breach or fault is not fully rectified within the stated deadline. The deadline of 15 (fifteen) Working Days can be extended by the impacted Party. The Contract will be suspended or terminated subject to the reserve of any legal action available to the Party not in default against the defaulting Party, including a claim for damages.

ART. I.12 MISCELLANEOUS CLAUSES

I.12.1 Waiver

The fact that one of the Parties renounces permanently or temporarily to the application of one or more clauses of the Contract may under no circumstances be considered as a renunciation of the rights of that Party arising from that particular clause or those clauses.

I.12.2 Entire agreement

Without prejudice to the application of the relevant legislation and regulations, the Contract comprises the entire agreement concluded between the Parties and includes all the agreements made by the Parties regarding the subject matter thereof.

I.12.3 Notices

Any notification, as required under the Contract, will be made in writing (including e-mail) except if otherwise provided for in accordance with the provisions of this Contract.

The exchange of information for the performance of the Contract shall be directed to the respective contact persons of the Parties as provided for under the relevant Annex.

I.12.4 Transfer of rights

The rights and obligations specified in the Contract may under no circumstances be transferred, either wholly or in part, without the prior written permission of the other Party (except for transfers to undertakings

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affiliated to Elia in the sense of article 1:20 of the Belgian Code of Companies and Associations for which no such permission shall be required). That permission shall not be refused or postponed unreasonably.

I.12.5 Severability

On condition that this has no effect on the subject of the Contract itself, the invalidity of one or more clauses in the Contract shall not affect the validity, interpretation and/or implementation of the other clauses of the Contract.

If one or more clauses of the Contract have to be declared invalid or impossible to implement, the review process foreseen under Art. I.10 shall be followed.

ART. I.13 APPLICABLE LAW – RULES REGARDING DISPUTES

The Contract is governed by and interpreted according to Belgian law.

Any dispute relating to the conclusion, validity, interpretation or execution of the Contract or of any subsequent contracts or operations that may arise therefrom, as well as any other dispute concerning or in relation to the Contract shall, at the discretion of the more diligent Party, be presented to:

- the jurisdiction of the Brussels Enterprise Court; or
- the mediation/conciliation and arbitration service organized by the regulator concerned in accordance with the applicable legislation and regulations; or
- an ad hoc arbitration in accordance with the provisions of the Belgian Judicial Code.

In view of the complex relationships, the Parties hereby agree, in order to facilitate the application of the rules regarding coherence or intervention, either – in the case of related disputes – to renounce any arbitration proceedings for the purpose of intervening in another judicial procedure, or – conversely – to renounce a judicial procedure for the purpose of taking part in multi-party arbitration. In the case of dissension, preference will be given to the procedure introduced first.

PART II - SPECIFIC CONDITIONS

TITLE 1: DEFINITIONS

ART. II.1 DEFINITIONS

Except where there is further specification aimed at application for the purposes of the present Contract, and without ignoring the stipulations of public order, the concepts defined in the Electricity Act, the electricity decrees and/or ordinances in relation to the organization of the electricity market and/or the various applicable Grid Codes and EU network codes and guidelines, as amended from time to time, are also included for the purposes of the Contract in the sense of these statutory or regulatory definitions.

In addition, the following definitions apply for the purposes of the Contract:

Access Point	<p>For the purpose of this contract:</p> <ul style="list-style-type: none"> • As defined in art. 2 §1 29° of the Federal Grid Code for an access to the transmission grid of Elia; • For an access to the Elia Grid other than transmission grid: a point, defined by physical location and voltage level, at which access to the Elia Grid other than transmission grid is granted, with a goal to injecting or taking off power, from an electricity generation unit, a consumption facility, a non-synchronous storage facility, connected to this grid;
Access Contract	As defined in art. 2 § 1 8° of the Federal Grid Code for an access to the transmission grid of Elia; for an access to the Elia Grid other than transmission grid, this means the contract between Elia and a Elia Grid User or a third party appointed by this Elia Grid User for the access of the installations of the Elia Grid User to the Elia Grid;
Access Contract Holder or "ACH"	The party requesting access to the Elia Grid who concludes the Access Contract with Elia;
Active Energy	As defined in art. 2 §1 14° of the Federal Grid Code;
Active Power	As defined in art. 2 (20) of the EU Commission Regulation (EU) 2016/631 of 14 April 2016 establishing a network code on requirements for grid connection of generators;
Automatic Control Service Type	Control of the Grid Voltage and Reactive Power by means of an automated and continuous modulation of the production/absorption of Reactive Power by the VSP in function of voltage measured at the Service Measurement Point;
Balance Responsible Party or "BRP"	As defined in art. 2 (7) of the EBGL and listed in the register of Balance Responsible Parties;
BRP Contract	The contract concluded between Elia and a BRP pursuant to art. 219 and 220 of the Federal Grid Code;

Closed Distribution System or "CDS"	As defined in art. 2 §1 3° of the Federal Grid Code; For the purpose of this Contract, CDS refers to CDS connected to the Elia Grid;
CDS Operator or "CDSO"	A natural or legal person appointed by the relevant authority as the operator of the CDS;
CDS User	As defined in Art. 2 §1 58° of the Federal Grid Code;
CIPU Contract	The contract for the Coordination of Injection of Production Units concluded with Elia, or any other regulated contract(s) that will replace the CIPU Contract, in accordance with the dispositions in art. 377 of the Federal Grid Code;
Communication Test	A test in which Elia certifies the VSP's ability to exchange information that is necessary to execute the contract as per Annex 8;
Compensator Mode	The operation mode during which a Technical Unit provides the Automatic or Manual Control Service Type, at Elia's request, without any injection of Active Power;
Connection Contract	The contract concluded between a Elia Grid User and Elia, as defined in art. 2 §1 9° of the Federal Grid Code;
Controlling Technical Unit	A Technical Unit that can participate in both the Automatic Control Service Type and the Manual Control Service Type as per art. 62 of the Federal Grid Code;
Day	Period of 24 hours starting at 00:00 CET morning until 24:00 CET;
Elia Grid	The electricity grid at which Elia holds the property right or at least a right of using and operating it, and for which Elia has been designated as system operator;
Elia Grid User	A Grid User connected to the Elia Grid;
Grid User	As defined in art. 2 §1 57° of the Federal Grid Code ;
Elia Grid User Declaration	The official declaration of the Elia Grid User provided to Elia containing proof of designation of a VSP by the Elia Grid User, as per letter template advised in Error! Reference source not found. ;
Grid Voltage or "GV"	The voltage at the Service Measurement Point;
Interconnection Point	As defined in art 2§1 32° of the Federal Grid Code;

Manual Control Service Type	Control of the Grid Voltage and Reactive Power by means of a step-wise modulation of the production/absorption of Reactive Power by the VSP following an explicit signal by Elia;
Minimum Active Power Threshold	Active Power beyond which a Technical Unit starts delivering the Service;
Technical Pmax or “P _{max_tech} ”	A data that indicates the installed capacity (in MW) of a Technical Unit in line with articles 45 and 48 of the SOGL, as mentioned in the CIPU Contract;
Month	Period starting at 00:00 the 1 st of the month until 24:00 the last day of the month;
Non-controlling Technical Unit	A Technical Unit that can participate only in the Manual Control Service Type, not falling under criteria for Controlling Technical Units as per art. 62 of the Federal Grid Code;
Offtake	Value indicating the offtake of Active Power at an Access Point. The term offtake is used to designate a certain sense of energy flow and does not exclusively refer to the technical means with which the Service is provided;
Open Qualification Procedure	A qualification procedure in accordance with public procurement rules in which candidates for provision of the Service are screened based on criteria set by ELIA in a publication on ted.europe.eu ; ;
Power Measured or “P _{measured} ”	The net active power, i.e. the difference between gross offtake and gross injection, measured at a Service Measurement Point. Net offtake from the Elia Grid is considered as a positive value, net injection into the Elia Grid is considered as a negative value;
Public Distribution Grid	As defined in art.2, §1 49° of the Federal Grid Code;
Public Distribution Grid User	A Grid User connected to a Public Distribution Grid;
Distribution System Operator or “DSO”	As defined in art. 2, 11° of the Electricity Law;
Reactive Energy	As defined in art. 2 §1 15° of the Federal Grid Code
Reactive Power or “Q”	As defined in art. 2 (28) of the EU Commission Regulation (EU) 2016/631 of 14 April 2016 establishing a network code on requirements for grid connection of generators;
Reactive Power Required for Remuneration or Q _{req_rem}	The volume of Reactive Power that is required as part of the provision of the Service and that will serve for the calculation of the Service remuneration;

Reactive Power Required for Delivery Control or $Q_{req_control}$	The volume of Reactive Power that is required as part of the provision of the Service and that is calculated for delivery control;
Sensitivity Coefficient (α_{eq})	As defined in Art. 67 of the Federal Grid Code
Setpoint	The control variable of a certain Technical Unit at a certain moment, defining the relation between voltage and regulation of Reactive Power, expressed in MVar. The Setpoint, as ordered by Elia according to modalities in Error! Reference source not found. describes the requested stepwise regulation of the Technical Unit's production or absorption of Reactive Power as per the Automatic and Manual Control Service Types;
Service Type	Manual Control or Automatic Control services, who together form the Voltage and Reactive Power Control Service;
Service Measurement Point	A point within an electric grid or within the grid of a Elia Grid User, taken as a reference for measuring the delivery of the Service as per Art.II.3.4 a);
Prequalification Test	A test performed prior to Service provision according to the modalities in Art.II.3.3;
Technical Control Band in Compensator Mode	The Reactive Power that can be produced or absorbed at Elia's request, within the technically possible operating limits as described in Error! Reference source not found. , for a Technical Unit operating in Compensator Mode;
Technical Control Band in injection mode	The Reactive Power that can be produced or absorbed at Elia's request, within the technically possible operating limits as described in Error! Reference source not found. , for a Technical Unit operating in injection mode;
Technical Unit	A facility connected to the Elia Grid, to a Public Distribution Grid or to a CDS able to provide Reactive Power and Voltage Control Services to Elia through a VSP;
Voltage and Reactive Power Control Service or "Service"	The Service constituted by the Manual Control and/or the Automatic Control Service Types;
Voltage Service Provider or "VSP"	Any natural person or legal entity, as defined in art. 234 of the Federal Grid Code, and with whom Elia has concluded a contract to provide the Voltage and Reactive Power Control Service;
Week	Period starting at 00:00 Monday morning until 24:00 the next Sunday;

TITLE 2: CONDITIONS FOR PARTICIPATION TO THE SERVICE

ART. II.2 CONDITIONS FOR VSP

II.2.1 Designation procedure of the VSP by the Elia Grid User

In accordance with art. 234, 5th al., of the Federal Grid Code, the VSP is the Elia Grid User of Technical Units providing the Service or a third party appointed by the Elia Grid User as VSP. In case of the designation by the Elia Grid User of a third party, the VSP must provide Elia with a copy of the Elia Grid User Declaration as figuring in Annex 11 signed by the Elia Grid User and the VSP.

II.2.2 Should the VSP for a certain Technical Unit change, the new party assuming his role also assumes the obligations deriving from this Contract.

II.2.3 When one or more of the Technical Units listed in Annex 1 is/are transferred to another VSP the VSP shall collaborate with the Elia Grid User(s) of the Technical Unit(s) to ensure correct transfer of the Technical Unit to the new VSP by providing all necessary information.

II.2.4 In application of art. 234, 4th al., of the Federal Grid Code, when the Service is delivered at an Access Point of a CDS, the relevant CDSO has the exclusive right to deliver the Service to Elia by undertaking the role of a VSP, or by appointing a VSP. If the CDSO provides the Service with Technical Units from a CDS User, Elia requires a proof of an agreement signed by both parties before the VSP starts delivering the Service.

II.2.5 In application of art. 234, 4th al., of the Federal Grid Code, when the Service is delivered at an Interconnection Point, the relevant DSO has the exclusive right to deliver the Service to Elia by undertaking the role of a VSP, or by appointing a VSP. If the DSO provides the Service with Technical Units from a Public Distribution Grid User, Elia requires a proof of an agreement signed by both parties before the VSP starts delivering the Service.

II.2.6 Open qualification Procedure

Prior to submitting an offer to provide the Service, the VSP has satisfied the following conditions to become a qualified VSP:

- 1) Provision of a declaration (referred to as “sworn statement”) in which the VSP declares the fulfilment of the obligations related to payment of social security contributions in accordance with the legal provisions, fulfilment of the obligations related to payment of taxes in accordance with the legal provisions, and situation of non-bankruptcy.
- 2) Proof of a sound financial and economical situation of the candidate.

The VSP has applied by submitting a completed application form and the required documents, for the applicable Service to Elia. The application form and the template for the sworn statement can be downloaded on Elia’s website or requested by e-mail to contracting_as@elia.be, with the contractual responsible as designated in Annex 10 in copy.

The VSP shall comply with the conditions set forth in the Open Qualification Procedure.

If it is confirmed that the VSP no longer complies with above conditions Elia will notify the VSP via a registered letter. If after 15 working days after reception of notification the VSP remains non-compliant to these conditions, he will be excluded from the Service without prejudice to Art. II.3.3 k) and his remuneration will be suspended.

ART. II.3 CONDITIONS FOR TECHNICAL UNITS

- II.3.1 The VSP operates Technical Units that are able to generate and/or absorb the Reactive Power to and from the Elia Grid or has concluded an agreement with one or more Elia Grid User(s) that operate(s) Technical Units that are able to generate and/or absorb the Reactive Power to and from the Elia Grid.
- II.3.2 The Technical Units used by the VSP to provide the Service are listed in Annex 1 (including the necessary technical and measurement information). The list of these Technical Units may change at any time subject to agreement by and between the Parties throughout the term of the Service delivery period.
- II.3.3 The Technical Unit may participate in the Service under the following conditions:

Technical requirements

- a) The Technical Units participating in the Service shall meet the requirements of the articles of the Federal Grid Code related to the the Service and, for the automatic service, comply with the relative Sensitivity Coefficient α_{eq} . The Sensitivity Coefficient is determined by Elia following discussions between Elia and the VSP as described in Annex 13 and in coherence with the criteria defined to that end in the Connection Contract (in which the technical characteristics of the Technical Unit are described). This coefficient is set in Annex 1.
- b) Elia is entitled to evaluate, at any time during the Service delivery period, whether the VSP complies with the conditions mentioned in Art. II.3.3 a). For the avoidance of doubt, this does not entail any right for Elia to physically access the VSP's assets without prejudice to any other regulation, i.e. the Federal Grid Code, regarding access to the Elia Grid User's connection installations. If Elia establishes that the VSP fails to comply with these conditions, he will be excluded from the Service without prejudice to Art. II.3.3 k) and his remuneration will be suspended.

Communication Test

- c) Before the beginning of Service delivery, the VSP must perform a Communication Test to verify the correct exchange of messages as per Annex 8. The Service may not be delivered before successful completion of such a test.
- d) The VSP undertakes to maintain communication means and processes operational at all times. If Elia notices that communication means and processes do not meet the requirements anymore, it may request performance of a new Communication Test, within a reasonable timeframe, until which Service delivery (and payment thereof) remains suspended. If Elia establishes that the VSP fails to comply with the Communication Test, he will be excluded from the Service without prejudice to Art. II.3.3 k) and his remuneration will be suspended.
- e) In such case, the VSP has to successfully complete a new Communication Test within a reasonable timeframe in order to be considered as available by Elia.

Prequalification Test

- f) Before the beginning of Service delivery, Elia shall request a Prequalification Test to verify the characteristics of the Service delivery by each Technical Unit.
- g) This test will at least involve an activation of the Service in which the VSP must provide the Service under conditions foreseen in the present Contract. Exact test modalities are described in Annex 13
- h) The Prequalification Test will confirm the Reactive Power Technical Control Band made available, measurement modalities together with the modalities for calculation of Q_{req_rem} (as per Annex 2) and $Q_{req_control}$ (as per Annex 3 and Annex 4).

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- i) The Prequalification Test will not be considered as an activation of the Service.
- j) Elia reserves the right to abort the Prequalification Test at any moment if it jeopardizes the security of the Elia Grid.

Compliance

- k) If the VSP is obliged to provide the Service according to provisions of the Federal Grid Code and he becomes excluded from the Service for the reasons stated in the present Article, he will be considered as non-compliant with its obligation. In such events, the VSP shall take all necessary actions to become compliant to aforementioned obligations.

II.3.4 All Technical Units participating in the Service must respect the following conditions:

- a) The VSP shall deliver the Service by using Service Measurement Points. A Service Measurement Point may correspond to:
 - o for Technical Units connected to the Elia Grid or a CDS : the Access Point to the Elia Grid; In exceptional circumstances following proposal by Elia and agreement of the VSP, the Service Measurement point may be a point downstream from this Access Point and associated to measurement and metering devices as specified in Annex 13;
 - o for Technical Units located in a Public Distribution grid: the Interconnection Point;

These Service Measurement Points will be used as a reference for remuneration, delivery control and the provision of the Service by Technical Units according to modalities described in the present Contract.

Technical Units delivering the Service shall always be associated to a specific Access Point² or Interconnection Point, that will be considered as the Service Measurement Point. Elia and the VSP must agree on the modalities for the measurement of the Reactive Energy and Reactive Power on the basis of which the Service shall be remunerated and controlled. The procedure and criteria under which these modalities shall be determined are described in Annex 13.

Independently from the Service Measurement Point, Service provision is linked to a Technical Unit for which the VSP must provide all information required in Annex 1. For Technical Units providing the Automatic Control Service Type, remuneration and delivery control as per Art. II.7, Art. II.8, and Art. II.9 shall be performed separately for each Technical Unit.

- b) Cumulated measures for several Technical Units at a certain Service Measurement Point may be considered under the following conditions:
 - o all Technical Units behind the Service Measurement Point are represented by the same VSP;
 - o a cumulated regulation effect is demonstrable and measurable at the Service Measurement Point;
 - o the VSP must demonstrate that provision of the Service at the Service Measurement Point is not influenced in an unpredictable way by other Technical Units or local grid elements downstream from the Service Measurement Point;
 - o in case the Technical Units are PGM's or PPM's:
 - the VSP communicates to Elia Active Power measurements for each Technical Unit providing the Service behind the Service Measurement Point;

² Taking into account the exceptions as per art. II.3.3 a) 1st §

Part II - Specific Conditions

When all above conditions are fulfilled, the cumulated Q_{req_rem} and $Q_{req_control}$ of these Technical Units may be used to remunerate and control Service delivery as provided in Art. II.7, Art. II.8, and Art. II.9 and after agreement with Elia (following the analysis foreseen in Annex 13).

- c) A Technical Unit supplying the Service cannot be a part of a strategic reserve contract.
- d) Elia reserves the right to disqualify a Technical Unit if its participation in the Service jeopardizes the Elia Grid security after justification.
- e) The VSP declares that the Technical Units related to Access Point(s) included in valid Access Contract(s) are in the Perimeter of a BRP having a valid BRP Contract.

II.3.5 Update of Annex 1:

The agreed list of Technical Units based on the template in Annex 1 should at all times be kept up to date by the VSP.

The agreed list of Technical Units may be modified by the VSP by submitting an updated list based on the template in Annex 1 via e-mail to the contractual responsible of Elia as mentioned in Annex 10 under the following conditions:

- At the moment of the notification, the Technical Units must be in respect with the applicable conditions set in Art. II.3.3 and Art. II.3.4
- The updated list of Technical Units becomes effective at the beginning of the next Month following the notification of acceptance by Elia.

II.3.6 Each Technical Unit must provide Elia with a minimum volume of 1 MVar for generation or absorption.

II.3.7 Controlling Technical Units

- a) The Controlling Technical Units participate in Automatic Control Service Type and in Manual Control Service Type, in particular under the conditions of articles 62 to 68 of the Federal Grid Code and in accordance with the provisions in the present Article.
- b) For these Technical Units, Reactive Power is generated or absorbed:
 - automatically, during slow (minute) or sudden (second) variations in the Grid Voltage; and
 - as the case may be, by changing the Setpoint of the automatic voltage regulator at Elia's request.
- c) Each Controlling Technical Unit may absorb or generate Reactive Power between the technical minimum ($Q_{tech\ min}$ or Q_{tech-}) and the technical maximum ($Q_{tech\ max}$ or Q_{tech+}) specified in Annex 1 for a normal operating voltage at the Access Point.
- d) Each Controlling Technical Unit may absorb or generate Reactive Power as per Art.II.3.7 c) for each voltage at the Access Point between 0,925 and 1,05 times the normal operation voltage, except if a limit is defined after consultation by and between the parties following the voltage limitations of the generator or following the stator current of the generator.

Any stator current limitation at steady state shall not impede operation of the voltage control.

- e) Within the operating range defined in Articles II.3.7 c) and II.3.7 d), each Controlling Technical Unit shall be able to adjust its Reactive Power automatically in the event of Grid Voltage variations at the Access Point, according to a relative Sensitivity Coefficient α_{eq} that is determined by Elia following discussions between Elia and the VSP as described in Annex 13. The relative Sensitivity Coefficient of each Controlling Technical

Unit is specified in Annex 1. It is the VSP's obligation to ensure that the relative Sensitivity Coefficient value corresponds at all times to reality. If necessary, the VSP may ask Elia to perform joint tests at his expense to validate the relative Sensitivity Coefficient. The VSP can update the relative Sensitivity Coefficient of each controlling Technical Unit in Annex 1 after providing a technical justification and with the agreement of Elia.

II.3.8 Non-controlling Technical Units

A Non-controlling Technical Unit participates only in Manual Control Service Type. It must be able to adapt its supply of Reactive Power between two levels agreed between Elia and the VSP. These two levels are defined in Annex 1.

TITLE 3: ACTIVATION

ART. II.4 ACTIVATION OF AUTOMATIC CONTROL SERVICE TYPE

- II.4.1 The Automatic Control Service Type is to be activated without interruption when a Controlling Technical Unit is injecting Active Power above its Minimum Active Power Threshold (as agreed in Annex 1).
- II.4.2 Controlling Technical Units deliver the Automatic Control Service Type in accordance with Art. II.3.7.

ART. II.5 ACTIVATION OF MANUAL CONTROL SERVICE TYPE

- II.5.1 The Manual Control Service Type is to be available for activation without interruption when a Technical Unit is injecting Active Power above its Minimum Active Power Threshold (as agreed in Annex 1).
- II.5.2 Elia may request a Technical Unit listed in Annex 1, in real time, to adjust its Setpoint from the time it is available in accordance with the provisions of Art. **Error! Reference source not found.** (request hereinafter referred to as 'activation').
- II.5.3 Elia will activate in priority Technical Units with the objective of reducing total Service costs, in consideration of the following constraints:
- the location of the Technical Unit in the grid and the voltage level at which it is connected ;
 - activation prices;
 - the supply of Reactive Power from the automatic reaction of the machine or a previous Setpoint communicated by Elia;
 - other technical requirements encountered at such time.
- II.5.4 Elia shall communicate a Setpoint to the VSP for the Technical Unit(s) selected under the conditions described in Article II.5.3. The Setpoint shall be communicated by a B2B request message from Elia to the VSP.
- The VSP shall electronically confirm receipt of the Setpoint in maximum 10 seconds. In case of absence of confirmation, the activation will be considered as failed and a remuneration reduction will apply as per Annex 7.
- The VSP shall have a maximum period of 5 minutes to attain the Setpoint of the Technical Unit(s) concerned from the time said value is sent by Elia.
- II.5.5 Elia shall request the activation of Manual Control Service Type by sending the VSP a Setpoint with at least the following information:
- the selected Technical Unit(s);
 - the new Setpoint to be applied, in terms of a Reactive Power value (expressed in MVar) to be attained within the time limit defined in Art. II.5.4 for this Technical Unit.
- II.5.6 Once the volume of Reactive Power desired by Elia is attained by the Technical Unit, the latter may no longer change its Setpoint and only the automatic regulator may change the injected or absorbed Reactive Power, until Elia sends a new Setpoint.

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- II.5.7 Where Elia does not send a Setpoint to the VSP, the Controlling Technical Unit shall operate from a reference Setpoint set by Elia and the VSP in Annex 1, corresponding to a volume of Reactive Power expressed in MVar and measured at the Service Measurement Point. Unless agreed differently in Annex 1, this Setpoint is considered to be 0MVar.
- II.5.8 Once a Technical Unit has been restarted and is injecting Active Power above its Minimum Active Power Threshold, irrespective of the last Setpoint sent by Elia, it is agreed that the Technical Unit shall supply the Service based on the Setpoint set in Annex 1.
- II.5.9 Even when the Technical Unit is not delivering the Service because it is injecting less than its Minimum Active Power Threshold (as agreed in Annex 1), Elia may request via an explicit order that the Technical Unit stops producing or absorbing Reactive Power.
- II.5.10 The procedure for exchanging a Setpoint between Elia and the VSP are described in detail in Annex 8.

ART. II.6 EXCHANGE OF INFORMATION

- II.6.1 In any case and for all Technical Units, the VSP must notify to Elia the grid topology, configuration of metering equipment and the resulting modalities of delivery of Reactive Power. In this regard, he must provide Elia with all relevant requested information.
- II.6.2 The VSP agrees that metering data from Elia, the DSO or the CDS Operator³, shall be used as the basis for the settlement as specified in Art. II.8 and Art. II.9.
- II.6.3 The VSP has the responsibility to be able to interpret messages received correctly and respond accordingly at all times.
- II.6.4 The VSP has the obligation to pro-actively maintain in good functioning order the communication channels described in Annex 8. Any failure of activation due to unavailability or dysfunction of these communication channels (without fault by Elia) will be the VSP's sole responsibility.
- II.6.5 Elia reserves the right to request regular Communication Tests such as described in Art. II.3.3 to check whether the communication channels as described in Annex 8 are operational.
- II.6.6 The exchange of information for the performance of the Service will be directed to the respective contact persons of the Parties, as mentioned in Annex 10.
- II.6.7 Any restriction (forecasted or not) in the reactive power control capability is to be communicated via telephone and email by and between the contact persons identified in Annex 10 as soon as possible.
- II.6.8 In the event of technical problems with electronic data interchange in the context of the Manual Control Service Type, the Parties shall use telephone communications as a back-up solution.

³ By default the Service Measurement Point is located at the Access Point or Interconnection Point meaning the Elia metering data shall be used. If the Service Measurement Point is located inside a Distribution Grid Or a CDS, metering data from the DSO, respectively the CDSO shall be used.

TITLE 4: ACTIVATION CONTROL

ART. II.7 ACTIVATION CONTROL

II.7.1 Automatic Control Service Type

- a) Pursuant to Art. II.3.7, each Controlling Technical Unit must be able to adjust its Reactive Power injection or absorption automatically in the event of Grid Voltage variation at its Service Measurement Point, in accordance with the relative Sensitivity Coefficient α_{eq} as defined in Annex 1.
- b) To ensure that the automatic regulator of a Controlling Technical Unit provides the Automatic Control Service Type correctly, Elia verifies whether the Reactive Power actually supplied by the Technical Unit corresponds to the Reactive Power that should have been supplied in response to variations of the Grid Voltage measured at that same Service Measurement Point.

For Technical Units located behind Access Points connected to the Elia Grid this control may be performed as per Art.II.3.4a) at a measuring point other than the Access Point, to be agreed between Elia and the VSP, provided that the said measurement gives sufficient information to calculate Reactive Power provided at the retained measuring point. This modality is to be decided in common between Elia and the VSP before the beginning of Service delivery as per procedure described in Annex 13. Performing this control at the Access Point is by default the prioritized option. For Interconnection Points this control shall always be performed at the high-voltage side of the Interconnection Point transformer.

- c) Elia uses quarter-hourly metering data to carry out this verification monthly for each Technical Unit in Month M-2, starting out with six samples. Each sample pertains to a 5 hour period. Elia applies the penalty described in Art.II.9.1 where necessary.
- d) Delivery control criteria, modalities and non-supplied volume calculation for the Automatic Control Service Type are described in Annex 3.
- e) In any case, Grid Voltage according to which regulation is performed is measured at the Service Measurement Point according to modalities of Art. II.6.

II.7.2 Manual Control Service Type

- a) Pursuant to Art. II.3.8, each Non-Controlling Technical Unit must be able to adjust its Reactive Power injection or absorption upon request by Elia as per Art. II.5.4.
- b) To ensure that the Non-Controlling Technical Unit provides the Manual Control Service Type correctly, Elia shall check whether the corresponding Reactive Power was supplied correctly by the selected Technical Unit within the timeframe mentioned in Art. II.5.4.

To this end, Elia shall use the 30" remote measurements (or the most precise measurements available) at the Service Measurement Point of:

- the Grid Voltage (GV);
- the Reactive Power supplied (Q).

For Technical Units located behind Access Points connected to the Elia Grid this control may be performed as per Art.II.3.4a) at a measuring point other than the Access Point, to be agreed between Elia and the VSP, provided that the said measurement gives sufficient information to calculate Reactive Power provided at the retained measuring point. This modality is to be decided in common between Elia and the VSP before beginning of Service delivery as per procedure described in Annex 13. Performing this control at the Access Point is by default the prioritized option. For Interconnection

Points, this control shall always be performed at the high-voltage side of the Interconnection Point transformer.

- c) Elia shall carry out this verification monthly for each Technical Unit in Month M-2 on six samples of activation requests by Elia over six different days. Elia shall apply a penalty as described in Art. II.9.1 where necessary.
- d) Elia shall select for this verification the activation requests pertaining to a minimum volume of 5% of $Q_{tech\ max}$ (value defined in Annex 1) when the interval with the following activation request is superior to 5 minutes.
- e) Delivery control criteria and non-supplied volume calculation for the Manual Control Service Type are described in Annex 4.

TITLE 5: REMUNERATION AND PENALTIES**ART. II.8 REMUNERATION**

- II.8.1 Following article 12 *quinquies* of the Electricity Law of 29 April 1999, prices can be fixed by means of Royal Decree. In such an event, prices fixed by the Royal Decree become applicable and prevail over prices fixed according to Annex 12.
- II.8.2 Elia starts remunerating the Service for a Technical Unit provided that the conditions set in Art. II.3 are satisfied.
- II.8.3 The remuneration for the Service, without prejudice to any penalties defined in Art. II.9.1, shall consist of the remuneration for the activation costs for each Technical Unit and will depend on the price (as agreed in Annex 12) and Q_{req_rem} volume for both Automatic and Manual Control Service Types for each quarter-hour.
- II.8.4 The remuneration basis is the Reactive Power Required (or Q_{req_rem}), calculated as per Annex 2 meaning a volume of MVar that correspond to Elia's regulation need at the given quarter-hour.

The VSP shall hold a bilateral agreement with the Access Contract Holder, acknowledging and accepting the modalities of Service delivery and the interactions between the Service and the application of the tariffs as per modalities described in Elia's tariff proposal⁴. In particular this bilateral agreement takes into account the fact that Q_{req_rem} will be also applied to calculate the tariff for the offtake or injection of additional reactive energy, as per modalities mentioned in Elia's tariff proposal. As part of this agreement the Access Contract Holder and VSP agree to settle any financial and data flows resulting from provision of the Service between them, without informing Elia and without Elia's arbitration. The VSP shall provide evidence of this agreement to Elia.

- II.8.5 The VSP may also request a compensation of his costs related to an increase of the tariff for power put at disposal for offtake (PPAD) due to the delivery of the Service. This compensation should be integrated in VSP offer with a detail of the additional supported costs.

ART. II.9 PENALTIES

- II.9.1 If Elia establishes, based on activation controls for each Service Type as these are described in Art. II.7, Annex 3 and Annex 4, that the VSP has failed for a particular quarter-hour to activate at least the quantity of $Q_{req_control}$ by the Service, Elia applies a penalty as described in Annex 6 and Annex 7.
- II.9.2 The sum of the penalties under Art. II.9.1 will be subject to a monthly cap, without prejudice to any liability on the part of the VSP for the non-fulfillment of his obligations in accordance with Art. I.6 of the General Conditions. The penalty for each month may not exceed the VSP's remuneration for the Service for this month for the concerned Technical Unit or the aggregation of Technical Units as per Art. II.3.4 b).

⁴ e.g. tariff for the offtake or injection of additional reactive energy or tariff for power put at disposal

TITLE 6: INVOICING

ART. II.10 INVOICING AND PAYMENT

- II.10.1 Via a joint validation platform or other agreed channel, Elia will present the VSP a report, by or before the fifteenth day of Month M, related to the monitoring of the Reactive Power provided by the VSP in Month M-2. This report will indicate, amongst others, all penalties for Month M-2 as calculated by Elia in accordance with Art. II.9.1, showing the method of calculation and all data on which the calculation is based.
- II.10.2 The VSP shall send the pro-forma invoice to Elia, to the contact persons in Annex 10 by or before the 25th (twenty-fifth) day of each Month M. The pro-forma invoice shall indicate in particular:
- the remuneration for the activation of the Service in Month M-2, calculated in accordance with Art. II.8;
 - where applicable, the amount of the penalties in Month M-2, as calculated by Elia in accordance with Art. II.9.1;
 - the items in accordance with Art. I.5.1 of the General Conditions.
- II.10.3 Elia shall either approve or reject the pro-forma invoice within 5 working days of receiving it. In accordance with the pro-forma invoice, the invoice may be sent to the Invoicing & Payment department after Elia has approved the pro-forma invoice or after 5 working days without response.
- II.10.4 Disputes from the VSP regarding the report and penalties stipulated in Art. II.9 must be reported within 25 calendar days starting from the day following Elia's submission of the respective report. Should this occur, the Parties shall enter into negotiations with each other with a view to reach an agreement in accordance with Art. I.13 of the General Conditions.
- II.10.5 If no agreement can be reached:
- the VSP, when drawing up his pro-forma invoice for Month M, shall take account of the penalties calculated by Elia;
 - the Parties shall continue their negotiations with a view to reaching an amiable arrangement and, after concluding their agreement, settle this invoice ex-post;
 - if no amiable arrangement is reached, the dispute settlement procedure set out in Art. I.13 of the General Conditions shall apply.
- II.10.6 Annex 9 includes the appropriation structure to be used by the VSP.

Part II - Specific Conditions

The Parties agree that this Contract is valid from its date of signature until 31/12/2021.

Drawn up in Brussels in two originals, of which each Party concerned acknowledges having received one. The official version has been drawn up in Dutch and French, without one version taking precedence over the other; the English version is solely for information purposes.

ELIA Transmission Belgium N.V./S.A., represented by:

[•]

[•]

[•]

[•]

Date:

Date:

[ServiceProvider], represented by:

[•]

[•]

[•]

[•]

Date:

Date:

PART III - ANNEXES

Annex 1 List of controlling and/or non-controlling Technical Units

ANNEX 1. LIST OF CONTROLLING AND/OR NON-CONTROLLING TECHNICAL UNITS

Name: [VSP]

Version: [date submission VSP]

Validity Period: [start] – [end]

In accordance with Art. II.3.2 the VSP must declare the Technical Units on which he will make the Service available.

The Technical Units must be in respect with all the conditions set forth in Art. II.3.4.

This list must be presented by the VSP to Elia and must be agreed between both Parties.

Updates of this list must be exchanged, following the rules set forth in Art.II.3.5, and agreed upon via email to the contracting responsible as per Annex 10.

The fact of being listed in the present Annex does not constitute a right of access for the said Technical Units.



Annex 1 List of controlling and/or non-controlling Technical Units

Technical Unit	Service Measurement Point EAN	Controlling (C) or Non-controlling (NC)	Technical control band in injection mode (MVar)				Technical control band in Compensator Mode (MVar)				Sensitivity Coefficient α_{eq}	Reference Setpoint (MVar)	Minimum Active Power Threshold (MW) to be able to supply the Technical Control Band (Group 1)	Minimum Active Power Threshold (MW) to operate in Compensator Mode (Group 2)	Maximum Active Power Threshold (MW) to operate in Compensator Mode (Group 2)
			$Q_{tech\ min}$	Q3	Q1	$Q_{tech\ max}$	$Q_{tech\ min}$	Q3	Q1	$Q_{tech\ max}$					

With:

- $Q_{tech\ min}$ (or Q_{tech+}): technical minimum that can be absorbed or generated by the unit and defining the Technical Control Band
- Q3: Value expressed in % of the $Q_{tech\ min}$ used in order to split the Technical Control Band into two price bands following conditions described in annex 12
- Q1: Value expressed in % of the $Q_{tech\ max}$ used in order to split the Technical Control Band into two price bands following conditions described in annex 12
- $Q_{tech\ max}$ (or Q_{tech+}): technical maximum that can be absorbed or generated by the unit and defining the Technical Control Band
- Reference set point: set point in which, the Controlling Technical Unit is supposed to operate when Elia does not send a Setpoint to the VSP

ANNEX 2. CALCULATION OF REMUNERATION OF THE SERVICE

The calculation of the power that Elia requires from the VSP is the basis for the Service remuneration.

The remuneration for each quarter-hour is dependent on the Q_{req_rem} value, and the price component applicable for the specific quarter hour as defined in Annex 12

$$Remuneration(Qh_n) = Q_{req_rem}(Qh_n) * \frac{1}{4} * Price(Qh_n)$$

Where:

- $Q_{req_rem}(Qh_n)$: the required Reactive Power that is remunerated for the quarter-hour n as computed in this annex
- Price(Qh_n): the price of Reactive Energy for quarter-hour n as determined per Annex 12
- Qh_n : the considered quarter-hour

CALCULATION OF Q_{REQ_REM}

The Automatic Control Service Type reaction of a certain Technical Unit is determined by the Grid Voltage and by the Technical Unit's capacity to react to it according to its relative Sensitivity Coefficient (α_{eq}). MVAR's required are considered to be MVAR's that are produced or absorbed when the Grid Voltage deviates from $V_{startup}$ (as defined in the present Annex).

$V_{startup}$ is the average Grid Voltage value of the quarter hour during which the unit started up for the last time (meaning the last moment in time where the Technical Unit's active power injection value exceeded its Minimum Active Power Threshold (P_{min} in Figure 1) value as agreed in Annex 1). $V_{startup}$ is also reinitialized at the quarter-hour following a Setpoint change request using the voltage measured at this quarter-hour. $V_{startup}$, together with α_{eq} characterize the Technical Unit's droop curve.

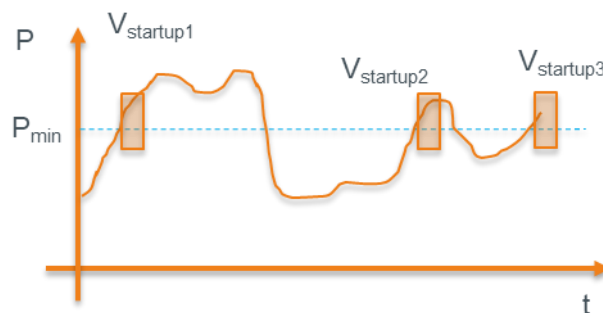


Figure 1: Example of calculation of $V_{startup}$ in function of the evolution of $P(t)$

Q_{req_rem} shall be calculated by the following formula:

- For Controlling Technical Units:
 - During qh where no setpoint is received by the technical unit

Annex 2 Calculation of remuneration of the Service

$$Q_{req_rem} = - \frac{(GV(t) - V_{startup}) * \alpha_{eq} * 0,45 * P_{tech_max}}{U_{norm_exp}} + Q_{initial} \quad (1)$$

- During qh during which a setpoint is received by the technical unit

$$Q_{req_rem} = Q_{req_manual} \quad (2)$$

- For Non-controlling Technical Units:

$$Q_{req_rem} = Q_{req_manual}$$

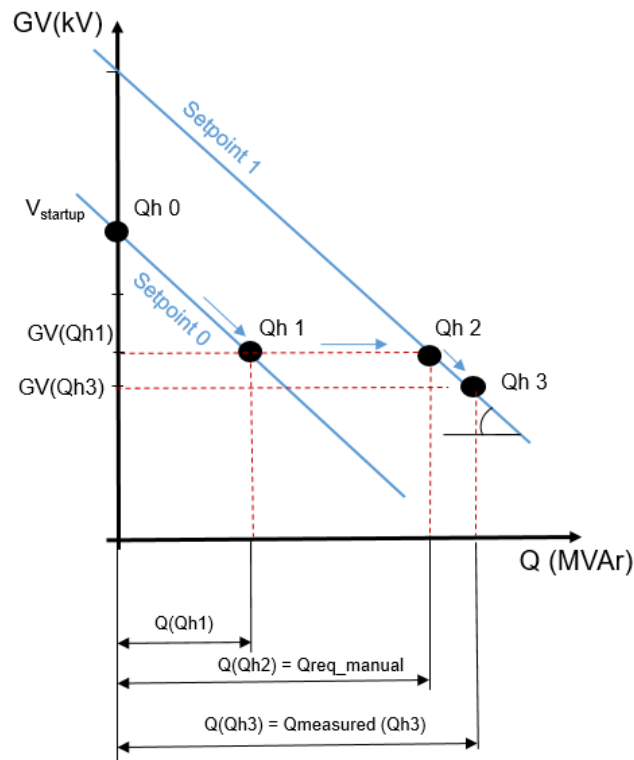
Where:

- $GV(t)$: the average value of the Grid Voltage measurement at the Service Measurement Point for the specific quarter-hour controlled;
- $V_{startup}$: as defined in the present Annex;
- Q_{req_manual} : the last Setpoint change value communicated by Elia as described in Annex 8.
- $Q_{initial}$: the Reactive Power measured at the quarter-hour following the quarter-hour at which the Controlling Technical Unit started up for the last time (meaning the last moment in time where the Technical Unit's active power injection value exceeded its Minimum Active Power Threshold value as agreed in Annex 1) or after a manual Setpoint is reached.
- U_{norm_exp} : the standard operational Grid Voltage under which the Technical Unit is foreseen to operate, as agreed in the Technical Unit's Connection Contract;
- P_{tech_max} : a data that indicates the installed capacity (in MW) of a Technical Unit in line with articles 45 and 48 of the SOGL, as mentioned in the CIPU Contract;

The following example describes the principle for the remuneration:

For a Controlling Technical Unit for 4 consecutive quarter-hours, remuneration for each quarter-hour would be as follows:

Annex 2 Calculation of remuneration of the Service



- **Qh 0** : The Technical Unit starts injecting Active Power above its Minimum Active Power Threshold (as per Annex 1). Average Grid Voltage over Qh 0 is $V_{startup}$ and $Q_{initial}$ is assumed to be 0 MVar.
- **Qh 1** : While still at Setpoint 0 the Grid Voltage evolves to $GV(Qh1)$. $Q_{req_rem}(Qh1)$ is calculated according to the α_{eq} , GV and $V_{startup}$ (using equation (1)) and is remunerated according to agreed price (as per Annex 12). $Q_{initial} = 0$ since no Setpoint change request from Elia was received during this quarter-hour.
- **Qh 2** : During Qh2 the unit has received a request for Setpoint change and has moved its droop curve to Setpoint 1. The Setpoint Revolt is reached during the Qh2. $Q_{req_rem}(Qh2)$ is equal to Q_{req_manual} as per equation (2).
- **Qh 3** : During Qh3, the unit has moved its droop curve to Setpoint 1. To avoid the propagation of the error following a setpoint request, $Q_{req_rem}(Qh3)$ is calibrated using the measured Reactive Power and voltage of this quarter-hour i.e. $Q_{initial} = Q_{measured}(Qh3)$ and $V_{startup} = GV(Qh3)$.

$$Q_{req_rem}(Qh3) = - \frac{(GV(Qh3) - V_{startup}) * \alpha_{eq} * 0,45 * P_{tech_max}}{U_{norm_exp}} + Q_{initial} = Q_{measured}(Qh3)$$

For the quarter hour following Qh3, in the case of no new setpoints sent, the Q_{req_rem} is going to be calculated according to the α_{eq} , GV, new $V_{startup}$ and $Q_{initial}$ (using equation (1)) as defined above and is remunerated according to agreed price (as per Annex 12)

For the quarter-hour(s) during which Technical Unit is expected to ramp-up its production of Reactive Power for the Manual Control Service Type (as per requirements in Art. II.5) Q_{req_rem} will correspond to the entire volume requested for this quarter-hour.

Example 1

Annex 2 Calculation of remuneration of the Service

For a Setpoint change request that arrives at the latest 10 minutes after the beginning of a given quarter-hour (at a $T_{request}$ **equal to or smaller than** start of the quarter-hour + $10 \cdot 60 = 600 \text{sec}$ within the quarter-hour), the $Q_{req_{rem}}$ for the quarter-hour during which the Setpoint change is requested (Qh1 in the figure below) corresponds to

$$Q_{req_{rem}}(Qh1) = Q_{req_{manual}}$$

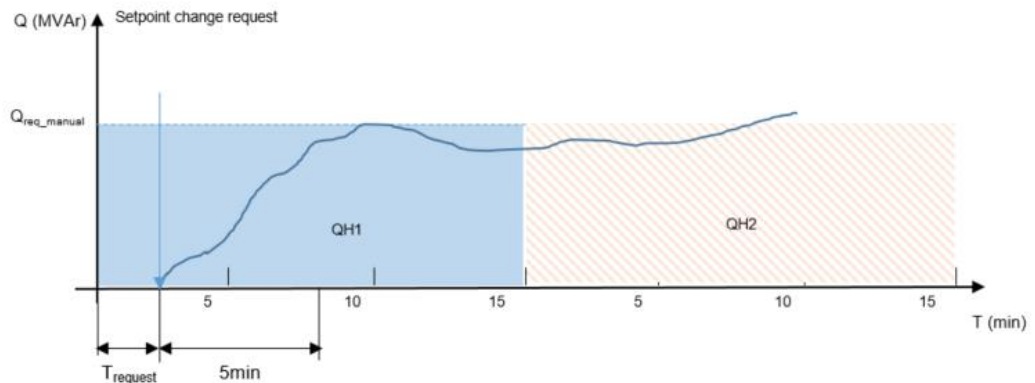


Figure 2: Example of the calculation of $Q_{req_{rem}}$ for a quarter hour during which a Setpoint change request occurs before 10 minutes within the quarter-hour

Example 2

For a Setpoint change that arrives later than 10 minutes after the beginning of the quarter-hour (at a $T_{request}$ **larger than** start of the quarter-hour + $10 \cdot 60 = 600 \text{sec}$ within the quarter-hour), the $Q_{req_{rem}}$ for the quarter-hour during which the Setpoint change is requested (Qh1) **and** the quarter-hour following the quarter-hour during which the Setpoint change has been requested (Qh2) corresponds to

$$Q_{req_{rem}}(Qh1) = Q_{req_{rem}}(Qh2) = Q_{req_{manual}}$$

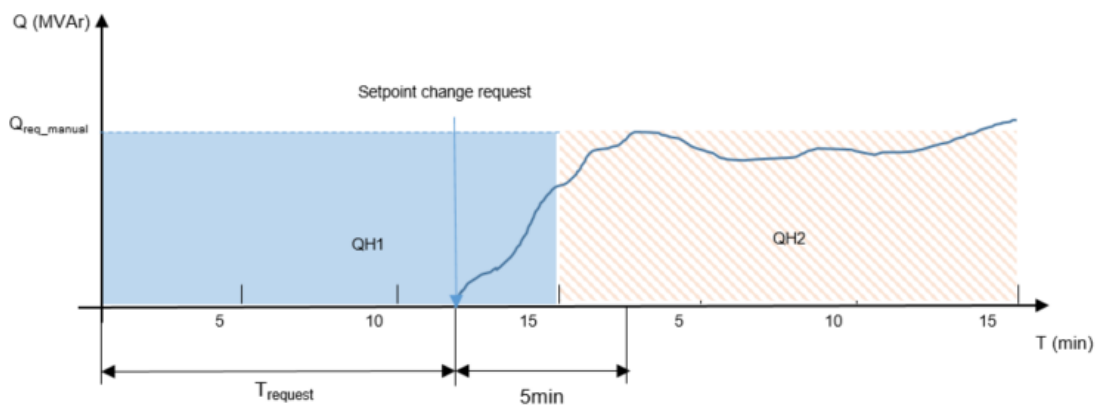


Figure 3: Example of the calculation of $Q_{req_{rem}}$ for 2 quarter hours during which a Setpoint change request occurs after 10 minutes within the first quarter-hour

ANNEX 3. DELIVERY CONTROL OF THE AUTOMATIC CONTROL SERVICE TYPE

Elia expects that the VSP's Reactive Power injection or absorption, at the Service Measurement Point as defined in Annex 13, remains within the calculated tolerance band around the value of $Q_{req_control}$. If this is not the case, Elia will apply penalties as per Art. II.9

Elia tolerates a deviation in the delivery of the Service for each quarter-hour. This tolerance is calculated as follows:

$$Tolerance = 7.5\% * Q_{tech,max}$$

With a:

- minimum value of 1 MVar
- maximum value of 25 MVar

This error margin is considered equally on the upper or lower margins of the additional Reactive Power value that should have been supplied by the Technical Unit.

Example of activation control for a certain Technical Unit

Considering a unit with the following characteristics:

- it is connected to the 150kV network (U_{norm_expl});
- it can supply a volume of Reactive Power in the band [$Q_{tech_min} = -48$; $Q_{tech_max} = 96,77$] MVar;
- it has a maximum technical power (P_{max_tech}) of 150 MW and minimum Active Power (P_{min}) of 100 MW;
- it has a Sensitivity Coefficient α_{eq} of 18
- the standard operational Grid Voltage under which the Technical Unit is foreseen to operate (U_{norm_expl}) is 150 kV
- the average Grid Voltage value of the quarter hour during which the unit started up for the last time $V_{startup} = 158.8$ kV

For this example, the 15-minute measurements of the Grid Voltage (GV(t)) and metering data of the Reactive Power (Q_{meas}) for 3 september 2019 are checked from 1:45pm to 6.30pm.

In this case, $Q_{req_control}$ is calculated as follows (according to formula defined in Annex 5):

$$Q_{req_control} = - \frac{\alpha_{eq} * (GV(t) - V_{startup}) * 0,45 * P_{max_tech}}{U_{norm_expl}} + Q_{initial}$$

Annex 3 Delivery control of the Automatic Control Service Type

Where $Q_{initial} = 0$ in this example as it is assumed no new setpoint has been sent by Elia.

The margin of tolerance defined in the present Annex corresponds to $0,075 * 96,7 = 7,25$ MVar and it is distributed around Q_{req} defining:

- Limit inf. = $Q_{req_control} - 7.25$ MVar
- Limit sup = $Q_{req_control} + 7.25$ MVar

The delivery control consists of checking if Q_{meas} is within the tolerance band defined by Limit inf. and Limit sup.

Date	Hour	P [MW]	P _{min} [MW]	GV = U _{meas} [kV]	Q _{meas} [MVar]	Q _{req_control} [MVar]	Limit inf. [MVar]	Limit sup. [MVar]	Succeeded?
03/09/2019	13:45	150	100	158,4	14,36	3,37	- 3,88	10,62	N
03/09/2019	14:00	150	100	158,1	12,56	5,42	-1,83	12,67	Y
03/09/2019	14:15	150	100	158,3	10,63	3,87	-3,38	11,12	Y
03/09/2019	14:30	150	100	158,3	11,2	4,35	-2,9	11,6	Y
03/09/2019	14:45	150	100	158,5	13,06	2,43	-4,82	9,68	N
03/09/2019	15:00	150	100	158,3	14,99	3,76	-3,49	11,01	N
03/09/2019	15:15	150	100	158,3	15,53	4,01	-3,24	11,26	N
03/09/2019	15:30	150	100	158,5	14,26	2,76	-4,49	10,01	N
03/09/2019	15:45	150	100	158,5	8,73	2,26	-4,99	9,51	Y
03/09/2019	16:00	150	100	158,7	7,83	0,95	-6,3	8,2	Y
03/09/2019	16:15	150	100	158,2	8,76	5,05	-2,2	12,3	Y
03/09/2019	16:30	150	100	158,1	9,03	5,72	-1,53	12,97	Y
03/09/2019	16:45	150	100	158,1	14,21	5,53	-1,72	12,78	N
03/09/2019	17:00	150	100	158,3	15,26	4,48	-2,77	11,73	N
03/09/2019	17:15	150	100	158,1	11,69	5,43	-1,82	12,68	Y
03/09/2019	17:30	150	100	158	11,3	6,73	-0,52	13,98	Y
03/09/2019	17:45	150	100	157,8	13,39	8,38	1,13	15,63	Y
03/09/2019	18:00	150	100	157,7	16	9,17	1,92	16,42	Y
03/09/2019	18:15	150	100	157,6	16,8	9,94	2,69	17,19	Y
03/09/2019	18:30	150	100	156,8	24,9	16,72	9,47	23,97	N

For the sake of clarity, the values illustrated in the table above are represented :

- in blue for the measured/metered values
- in green for the computed values
- in black for the fixed values

Elia deems that the Service has not been supplied for any quarter-hour during which the metered Reactive Power Q_{meas} is not within calculated lower and upper limits (Limit inf and Limit sup). These quarter-hours are considered as failed samples.

In this example, this is the case for 8 out of 20 quarter hours, i.e. 40% of the time.

Annex 3 Delivery control of the Automatic Control Service Type

This sample is representative of one of the 6 samples that are considered per unit per month. Based on the six samples of one month, Elia can apply a remuneration reduction as described in Annex 6.

In order to avoid a double penalization related to the tariff for the offtake or injection of additional reactive energy and the delivery control of the Automatic Control Service Type, quarter-hours for which a Reactive Power volume has already been penalized through the tariff for the offtake or injection of additional reactive energy will not be considered in the delivery control of the Service.

ANNEX 4. DELIVERY CONTROL OF THE MANUAL CONTROL SERVICE TYPE

Following the request of a Setpoint change, Elia expects that the VSP adapts his Reactive Power injection or absorption within the requested timeframe to respond to Elia's request.

Elia tolerates a deviation in the delivery of the Service for each quarter-hour. This tolerance is calculated as follows:

$$Tolerance = 7.5\% * Q_{tech,max}$$

With a :

- minimum value of 1 MVar
- maximum value of 25 MVar

This error margin is considered equally on the upper or lower margins of the additional Reactive Power value that should have been supplied by the Technical Unit.

Example of verification for a certain Technical Unit:

Elia sends an activation request at 8 a.m. (generation of Reactive Power) to Technical Unit X with the Setpoint "150 MVar" (the procedures for the communication of a Setpoint are described in Annex 8). In this case $Q_{req_control}=150MVar$

To verify whether the required Reactive Power was supplied ($Q_{req_control}$), Elia uses the remote 30" Reactive Power measurements available for the 5 minutes following the activation request, i.e.:

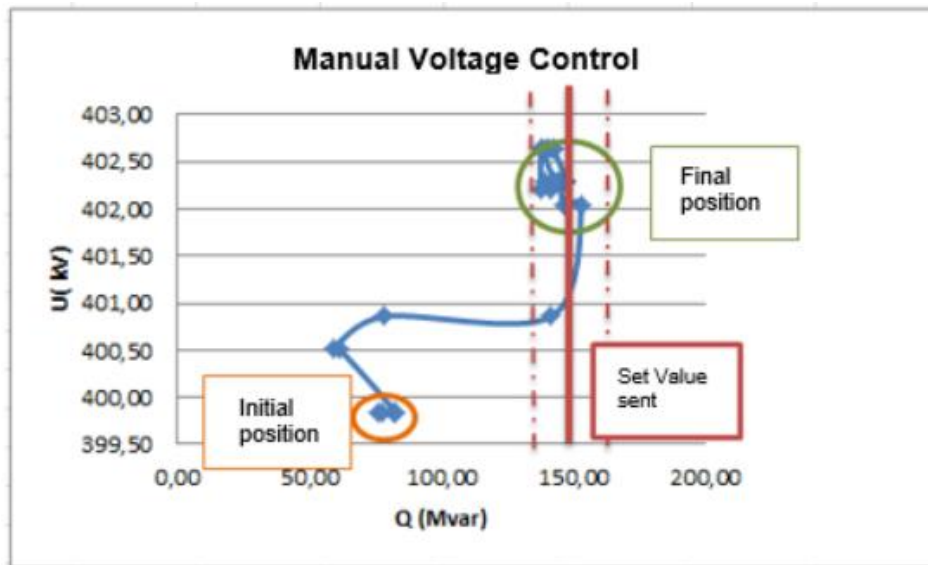
Time	$Q_{meas}(MVar)$	
8:00:00	81.76	
8:00:30	75.84	
8:01:00	77.42	
8:01:30	82.55	
8:02:00	61.22	
8:02:30	59.25	
8:03:00	78.21	
8:03:30	141.41	
8:04:00	152.86	
8:04:30	146.15	
8:05:00	145.36	

Elia checks whether the volume of the $Q_{req_control}$ (150 MVar) and measured at the Service Measurement Point is within the limits of the tolerance calculated in the present Annex, for at least two successive measurements. Considering a Technical Unit with $Q_{tech,max} = 200$ MVar, the Tolerance equals to 15 MVar.

That is the case in this example as of the measurement at 8:03:30 (i.e. 3 minutes and 30 seconds after 8 a.m.). The VSP has responded correctly to Elia's activation request (see also graphic example hereunder). Indeed the reactive power measured is within the tolerance for a least two successive measurements (8:03:30 and 8:04:00).

In order to avoid a double penalization related to the tariff for the offtake or injection of additional reactive energy and the delivery control of the Manual Control Service Type, quarter-hours for which a Reactive Power volume has already been penalized through the tariff for the offtake or injection of additional reactive energy will not be considered in the delivery control of the Service.

Annex 4 Delivery control of the Manual Control Service Type



(alphaEQ)

ANNEX 5. EXAMPLE OF CALCULATION OF RELATIVE SENSITIVITY COEFFICIENT OF TECHNICAL UNITS (ALPHA_{EQ})

Disclaimer: In the present Annex is presented an example of the calculation of the relative Sensitivity Coefficient (α_{eq}) value for informative reasons. It is to be noted that this value is a structural information for the Technical Unit's capability to regulate voltage and reactive power and its provision is foreseen by the Federal Grid Code. In case a Technical Unit provides the Automatic Control Service Type, the relative Sensitivity Coefficient is determined by Elia after discussions between Elia and the Elia Grid User. For each Technical Unit delivering the Automatic Control Service Type this value is annotated in Annex 1.

The reaction of a certain Technical Unit to voltage changes at its Service Measurement Point corresponds to the following equation (which is also a characteristic of the Technical Unit's droop curve):

$$\alpha_{eq} = - \frac{\frac{\Delta Q}{0,45 \times P_{nom}}}{\frac{\Delta GV}{U_{norm_expl}}}$$

- ΔGV : the difference between the Grid Voltage before and after the network voltage variation;
- ΔQ : the absolute difference between the Reactive Power measured at Q_{h_n} and the Reactive Power Measured at $Q_{h_{(n-1)}}$. This volume corresponds to the additional Reactive Power that must be supplied by a Technical Unit during the 15-minute interval considered after a variation of the measured voltage (ΔGV) on this same 15-minute interval, calculated by applying the formula above.
- U_{norm_expl} : The standard operational Grid Voltage under which the Technical Unit is foreseen to operate, as agreed in the Technical Unit's Connection Contract.
- Q_{h_n} : the considered quarter-hour

Elia has 15-minute metering data and measurements of the Reactive Power and measurements of the voltage at the Service Measurement Point of the Technical Unit. The quarter-hourly metering, following a request for Setpoint change from Elia, are not considered in a valid sample.

A time interval is chosen for which the measurement of the Grid Voltage and of the net Active and Reactive Power of the Technical Unit concerned is available, but not necessarily on the site of the Technical Unit. The choice of time interval must meet the following criteria:

- There are no radical variations in the frequency of the system and the net Active Power of the Technical Unit during the time interval, and the Setpoint is not changed.
- No radical variations of the Grid Voltage and the net injection or absorption of Reactive Power of the Technical Unit occur during the first 20 seconds and last 20 seconds of the interval.
- There is no major variation in Grid Voltage and thus in the net injection or absorption of Reactive Power of the Technical Unit during the rest of the interval.

(alphaEQ)

Calculation of ΔQ and ΔGV

ΔGV is calculated by the following formula:

$$\Delta GV = GV_2 - GV_1$$

Where:

- GV_1 : average Grid Voltage during the first 20 seconds of the interval
- GV_2 : average Grid Voltage during the last 20 seconds of the interval

ΔQ is calculated by the following formula:

$$\Delta Q = Q_2 - Q_1$$

Where:

- Q_1 : average Reactive Power injection or absorption of the Technical Unit during the first 20 seconds of the interval
- Q_2 : average Reactive Power injection or absorption of the Technical Unit during the last 20 seconds of the interval

ANNEX 6. PENALTY FOR NON-DELIVERY OF THE AUTOMATIC CONTROL SERVICE TYPE

Elia shall deem the Automatic Control Service Type to have not been supplied for a given 15-minute interval when the variation in Reactive Power measured for a certain Service Measurement Point does not fall within the margin of error defined in Annex 3.

If the conditions for the supply of the Automatic Control Service Type are not satisfied, Elia will calculate reductions to be applied to each monthly remuneration based on the following rule:

$$\%Q_{\text{failed}} = \frac{\# \text{ QHs not compliant with the supply conditions in the monthly samples}}{\# \text{ QHs analysed in the monthly samples}}$$

- Where $\%Q_{\text{failed}}$ is between 0 and 30%, Elia shall not apply the remuneration reduction.
- Where $\%Q_{\text{failed}}$ is between 30% and 80%, a 25% reduction shall be applied to the remuneration for the Service for this Technical Unit as set in Art.II.8.3, for the entire month as of which the sample was constituted.
- Where the $\%Q_{\text{failed}}$ is between 80% and 100%, Elia shall deem that the Service has not been supplied and shall therefore not remunerate the VSP for the Technical Unit concerned, for the entire month as of which the sample was constituted.

ANNEX 7. PENALTY FOR NON-DELIVERY OF THE MANUAL CONTROL SERVICE TYPE

When the VSP fails to activate the Service (as established from the delivery control procedure described in Annex 4), Elia will apply a reduction of the monthly remuneration.

The penalty shall be proportional to the missing volume ($Q_{\text{manual_missing}}$) i.e. the Reactive Power volume that has not been provided during the activation of Manual Control Service Type according to the following formula:

$$\text{Remuneration reduction} = Q_{\text{manual_missing}} * \text{price of the last MVar supplied} * 1,5 * 10\text{h}$$

For instance, if the Setpoint requested by Elia for the example used in Annex 4 had been 200 MVar, Elia would have noted in its measurements that the maximum value attained by the unit is 152,86 MVar.

A penalty for the volume not supplied would then be imposed on the delta, i.e.

$$Q_{\text{manual_missing}} = 200 - 152,86 = 47,14 \text{ MVar}$$

If the VSP fails to confirm reception of the activation message, $Q_{\text{manual_missing}}$ is considered to be equal to the entire value of the Setpoint change request (i.e. in the above example, $Q_{\text{manual_missing}}=200\text{MVar}$).

ANNEX 8. COMMUNICATION OF A SETPOINT BY ELIA FOR MANUAL CONTROL

An example of delivery of the Service can be shown on the figure hereunder. The Y axis corresponds to the Grid Voltage measurement at the Service Measurement Point of the Technical Unit and the X axis defines the volume of Reactive Power produced/absorbed by that Technical Unit on the Service Measurement Point.

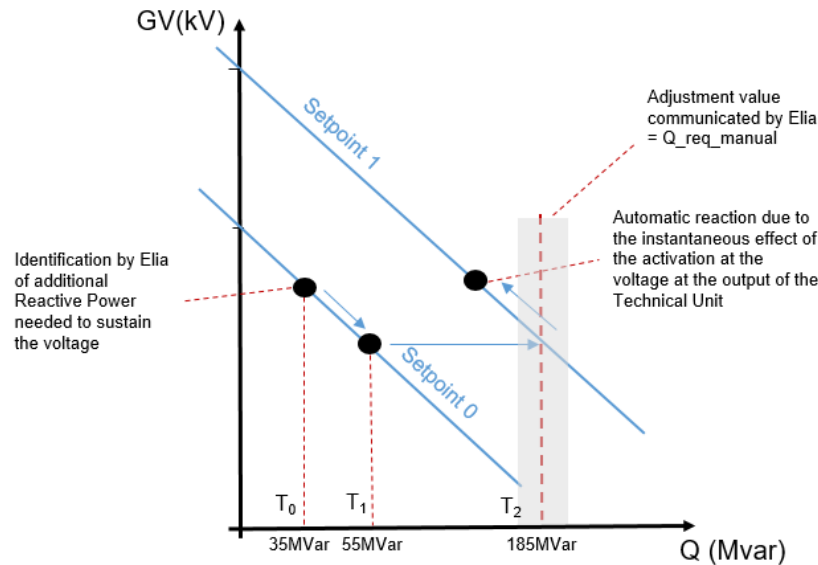


Figure 4: Example of a setpoint change request by Elia

When Elia identifies a need for additional Reactive Power to be generated (T_0), the Unit generates 35 MVar by adapting the setting of its automatic voltage regulator. Elia wishes to generate an additional volume of 150 MVar, and thus sends the Setpoint “185 MVar” (150 + 35) to the VSP.

This Setpoint corresponds to a Reactive Power measured at the Service Measurement Point. The grey area around the Setpoint desired by Elia corresponds to the margin defined in Annex 4.

The VSP has 5 minutes to carry out this change. In this example, the VSP addressed Elia’s request at T_1 (55 MVar).

From the moment it reaches the desired volume (T_2 in the graph), the VSP considers that Elia’s activation request was met and leaves the automatic control to run from that point on, until a new Setpoint is communicated by Elia (Setpoint 1 on the graph).

ANNEX 9. APPROPRIATION STRUCTURE

Ancillary service	Remuneration	Booking reference
Voltage regulation	Automatic Control Service Type delivery control	910339
	Manual Control Service Type delivery control	910360
	MVAr Prod-normal mode (0-Q1 band)	910329
	MVAr Prod-normal mode (Q1-Qtech_max band)	910330
	MVAr Abs-normal mode (0-Q3 band)	910331
	MVAr Abs-normal mode (Q3-Qtech_min band)	910332
	MVAr Prod-compensator mode (0-Q1 band)	910333
	MVAr Prod-compensator mode (Q1-Qtech_max band)	910334
	MVAr Abs-compensator mode (0-Q3 band)	910335
	MVAr Abs-compensator mode (Q3-Qtech_min band)	910336
	MVAr Prod- non-regulating unit (all band)	910337
	MVAr Abs- non-regulating unit (all band)	910338
	Voltage regulation start-up	905503

ANNEX 10. CONTACT PERSONS

Contract monitoring
Invoicing and payments <u>Settlement</u> <u>Invoicing and payments</u>
Real-time operations National dispatching (Operations) Chaussée de Vilvoorde 126 B-1000 Brussels Tel.: +32 (0)2 382 2383 Fax: +32 (0)2 382 2139 Email: dispatching@elia.be Northern regional dispatching office (Noord) Southern regional dispatching office (Zuid)
Non real-time operations National dispatching (Duty) Chaussée de Vilvoorde 126 B-1000 Brussels Tel.: +32 (0)2 382 2308 Fax: +32 (0)2 382 2139 Email: dispatching@elia.be

ANNEX 11. ELIA GRID USER DECLARATION

Elia Transmission Belgium NV

To the attention of :

Keizerslaan 20

1000 Brussels

[Date DD/MM/YYYY]

Subject: Designation of a VSP by the Elia Grid User

	Elia Grid User	VSP
<i>Name</i>		
<i>Address</i>		

The Elia Grid User declares that:

- He designates [VSP] as VSP for the delivery period of [DD/MM/2021] to 31/12/2021 to VSP located at [ADDRESS].
- He is aware of the content of the concerned contract to be concluded by Elia and VSP.
- He will not take other commitments with respect to, nor be in charge of the above mentioned contract between Elia and VSP regarding the delivery of the Voltage and Reactive Power Control Service (hereinafter "the Service"), without prejudice to what is stated in the last paragraphs of this Declaration.

The Elia Grid User recognizes and agrees that the contract between Elia and VSP for the delivery of the Service is without prejudice to its rights and obligations regarding any other contract signed between Elia and the Elia Grid User or a third party related to the Technical Units, such as (but not limited to) a connection contract, access contract, CIPU contract or contract for restoration or balancing services.

The Technical Units covered by this agreement are the following:

Technical Unit	EAN

The Elia Grid User and the VSP recognize that Elia is not accountable for:

- A disagreement between the Elia Grid User and the VSP regarding the production of energy and the delivery of the service voltage and Reactive Power control.

Annex 11 Elia Grid User Declaration

- A disagreement between the Elia Grid User and the VSP related to penalties, as provided in the contract for the Service.
- A disagreement between the Elia Grid User and the VSP in regards to tarification of Reactive Power related to provision of the Service.

The VSP declares that he will inform the Elia Grid User and the Access Contract Holder in case of any modification regarding the delivery of the Service.

The present agreement between the Elia Grid User and the VSP is terminated in case the Elia Grid User notifies the VSP and Elia either of the designation by him of a new third party as VSP for the above mentioned Technical Unit(s) for the remaining term of the delivering period and upon signature by this new third party of a contract regarding the delivery of the Service with Elia, or of his willingness to act as the VSP himself for the above mentioned Technical Unit(s) for the remaining term of the delivering period. In the latter case the Elia Grid User recognizes and agrees to take over the rights and obligations of the contract regarding the delivery of the Service from the VSP.

If the present agreement between the Elia Grid User and the VSP is terminated for any other reason or if a certain Technical Unit is deleted from the above list, and if the Elia Grid User is obliged to provide the Service, the Elia Grid User shall by default assume the role of VSP for the concerned Technical Unit(s) until he would appoint a new third party as VSP.

The Elia Grid User, represented by:

Name:

Function:

Date:

The VSP, represented by:

Name:

Function:

Date:

ANNEX 12. PRICE STRUCTURE

The price (expressed in €/MVArh) for the Service is set according to:

- The Technical Control Band within which the Technical Unit is producing or absorbing MVARs at the specific moment of the activation;
- The Group in which the Technical Unit is included;
- Whether the unit is controlling or non-controlling;

The Parties have identified the following options:

a) Technical Units that can supply Reactive Power when they:

- generate Active Energy beyond a certain threshold during a certain 15-minute period ($\% P_{\max_tech} \times 15$ minutes; specified for each Technical Unit in Annex 1); or
- perform offtakes of Active Energy for reasons other than the supply of Reactive Power (e.g. a hydraulic Technical Unit in pump mode for storage reasons)

These are hereinafter referred to as “Group 1” and are indicated in green in Figure 5: Group 1 and Group 2 Technical Units.

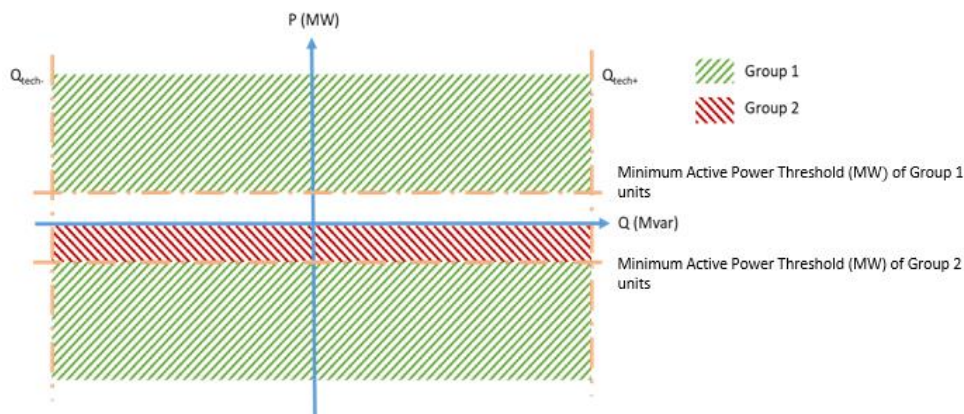


Figure 5: Group 1 and Group 2 Technical Units

b) Technical Units that can supply Reactive Power in Compensator Mode and respond to a request from Elia to activate Reactive Power by offtaking a small quantity of Active Energy (specified for each Technical Unit capable of supplying this service in Annex 1);

These are hereinafter referred to as “Group 2” and are indicated in red in Figure 5: Group 1 and Group 2 Technical Units.

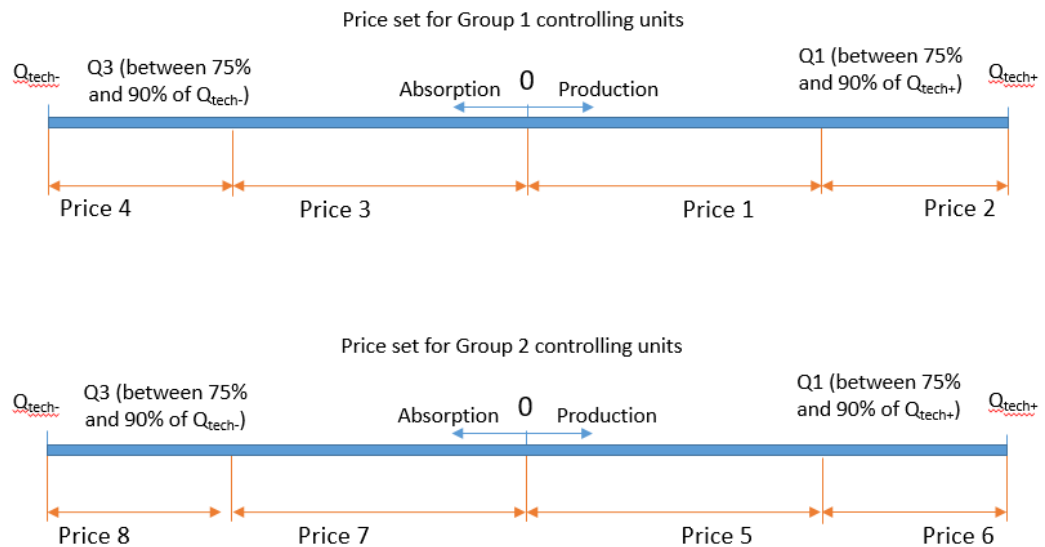
The VSP has the right to set different sets of prices according to the aforementioned criteria.

In particular:

- 1) For controlling units, the VSP may set up to 2 prices for injection or absorption. Technical Units that can provide the Service within technical bands equal to or larger than 20 MVAR (whether in production or absorption) may split their Technical Control Band (in the side of injection and/or absorption) in 2 price bands. The value of the reactive power defining the limit between the two price bands (referred as “Q1” and “Q3” in the following figure) can be chosen by the VSP between 75 % and 90% of $Q_{tech\ max}$ in production and between 75 % and 90% of $Q_{tech\ min}$ in absorption upon technical

Annex 12 Price Structure

justification of the chosen limit. The VSP may propose different prices for Group 1 and Group 2 units as follows:



Where:

- Q1 and Q3 are set for each Technical Unit in Annex 1;

For Technical Units that have Technical Control Bands lower than 20MVar on the injection and/or absorption side, VSP's may propose 1 price per side:

- Price 1 (P1) for the injection side of Group 1 controlling units;
- Price 3 (P3) for the absorption side of Group 1 controlling units;
- Price 5 (P5) for the injection side of Group 2 controlling units;
- Price 7 (P7) for the absorption side of Group 2 controlling units;

For Non-Controlling Technical Units, the VSP may set one price for injection (P9) and one for absorption (P10) of Reactive Power.

ANNEX 13. PREQUALIFICATION PROCEDURE

The Prequalification Procedure is performed before delivery of the Service and aims at measuring and determining the main characteristics and parameters used for the Service delivery and settlement.

In particular, the Prequalification Procedure will consist of the following steps:

a) Determination of available Technical Control Band

The VSP and Elia shall determine together based on technical documentation the Technical Control Band that the Technical Unit may put at Elia's disposal for the Service. This estimation is to be confirmed afterwards by the Prequalification Test.

b) Determination of local grid influence, Service Measurement Point and characteristics of the Service:

The VSP and Elia shall determine together the reference Service Measurement Point that will be used for the remuneration, Service steering and delivery control (among others for calculation of Q_{req_rem} , Q_{failed} and $Q_{manual_missing}$ as per Annex 2, Annex 6 and Annex 7 respectively). The VSP and Elia shall also determine together how local grid topology affects delivery of Reactive Power to the Service Measurement Point. They will assess together influence of cables, production units, loads and/or other grid elements such as batteries that may have such an influence. If, for any reason due to the local grid, the effect of both Automatic and Manual Control Service Types at the Service Measurement Point is not identifiable or effective, the Technical Unit may not provide the Service to Elia.

Automatic Control Service Type

As defined in II.3.3 a) and Annex 5, a Sensitivity Coefficient is determined by Elia in the contract following discussions between Elia and the VSP. This Sensitivity Coefficient defines the relation between the Grid Voltage and the Reactive Power produced or absorbed at the Service Measurement Point which is by default the Access Point or the Interconnection Point.

If, for any reason due to the local grid, this coefficient cannot be determined at the Access Point, Elia and the VSP will put everything in place to be able to find an alternative solution for the provision of the Service. Based on the discussions with the VSP, Elia may:

- either request to move the Service Measurement Point at a point located downstream the Access point⁵ in order to be able to determine this coefficient at a Service Measurement Point located between the Access Point and the connection point of the Technical Unit to the internal grid of the Elia Grid User. This option is subject to the agreement of the VSP (for example if appropriate measurement devices of the voltage and the reactive power and a metering device of the reactive power exist at this point and measurement values can be communicated to Elia in real-time). Under these conditions, this point can then be defined as the Service Measurement Point as per Art II.3.4.
- Or to allow only the delivery of the Manual Control Service Type by the concerned Technical Unit at the Service Measurement Point

Manual Control Service Type

⁵ This option is not applicable for a Technical Unit providing the Service at an Interconnection Point i.e. located in a Public Distribution grid

Annex 13 Prequalification Procedure

The Manual Service Type requires that the Reactive Power produced or absorbed at the output of the Technical Unit has a visible impact on the Reactive power measured at the Service Measurement Point.

For any Technical Unit delivering the Service this relation must remain stable in time. Should this relation change in any way, the VSP commits to immediately notifying any change to Elia.

c) Determination of delivery control modalities

According to results of analyses in all previous steps, Elia and the VSP shall determine together the modalities for delivery control according to dispositions of Art.II.3.4, Annex 6 and Annex 7, in relation to the Service Measurement Point and local grid influence.

As a result of this analysis Elia and the VSP(s) shall decide also on whether provision of the Service by more than one VSP shall be made possible downstream of an Access Point, and whether it is possible to consider cumulated measures of several Technical Units (as per Art. II.3.4 b)).

d) Prequalification Test

In order to validate all above modalities, the VSP and Elia must agree to execute a Prequalification Test.

During this test, the VSP shall perform an activation of the Automatic and/or Manual Control Service Type (depending on which of the Service Types he is providing).

In particular for the Automatic Control Service Type, he must, for the whole duration of the test, regulate his injection or absorption of Reactive Power according to Grid Voltage according to requirements in Art. II.4. Moreover, during this same period, Elia will send one Setpoint change as per Annex 8 to which the VSP must react accordingly.

The test is considered successful if :

- e) the Technical Unit delivering the Automatic Control Service Type has correctly delivered the Service for all quarter-hours during a 10 hour period (as per rules in Annex 3), and has correctly reacted to the Setpoint change request (as per rules in Annex 4);
- f) the Technical Unit delivering the Manual Control Service Type has correctly reacted to the Setpoint change request (as per rules in Annex 4);

The test may be executed at a moment in time selected by the VSP and validated by Elia. The test is performed at the expenses of the VSP.