

Voltage and Reactive Power Control Service 2019

Bidding instructions

1. Introduction

ELIA will contract several suppliers for the service of voltage and reactive power control for the delivery period of 1st January 2019 to the 31st December 2019 included.

A framework agreement will be awarded to the selected suppliers following the advice of the CREG regarding the reasonability of the prices proposed in the submitted offers.

The minimal technical requirements for a power unit to be contracted are:

1. Minimal volume to be produced or absorbed: 5 Mvar
2. Fulfilment of the technical requirements specified in the applicable Grid Code.
3. Fulfilment of the technical requirements specified in the contract template¹

2. Content of the offer

In order to offer voltage and reactive power control service, a candidate supplier has to provide ELIA, **at last the 29 June 2018**, the following documents:

a. A letter in which:

- The candidate accepts the general terms and conditions and the provisions of the contract template¹ proposed by Elia;
- The candidate commits, by submitting its signed offer, to respect fully and without reserves the bidding instructions.
- The candidate states that his offers are valid until 31/12/2018;

b. The candidate specifies:

- The identification (EAN number, as listed in Annex 1A of the CIPU contract) of the power units from which the candidate wishes to provide the voltage and reactive power control service;

¹ downloadable on Elia Website <http://www.elia.be/en/suppliers/purchasing-categories/energy-purchases/Ancillary-services/How-to-candidate-make-offer>

- The technical band ($Q_{\text{tech min}}$ and $Q_{\text{tech max}}$) in Mvar for each power unit in injection mode (Lot 1 art 3.2 of contract template²);
- The minimal threshold (in % of P_{nom}) from which technical band in injection mode is fully at Elia's disposal
- If applicable, the technical band ($Q_{\text{tech min}}$ and $Q_{\text{tech max}}$) in Mvar for each power unit running in compensator mode (Lot 2 art. 3.2 of contract template²);
- The minimal threshold (minimal offtake in # MW) needed to run the power unit in compensator mode and from which technical band is fully at Elia's disposal;
- The status "regulating / non regulating" of the power unit;
- The sensitivity coefficient α_{eq} of each power unit, as defined in the contract template²;
- A justification for equipped power units (as defined in Art.68-74 of technical regulation) within candidate's CIPU contract that cannot be offered to provide the voltage and reactive power control service;

c. The candidate details its offered prices with respect to following rules:

In order to allow a good level of comparability of the prices, Elia has built up a price structure of the offers, that includes two fixed prices and several activation prices, related to costs incurred during the contractual period of 2019 and/or costs incurred in 2018² for the provision of the voltage and reactive power control service, as described in points 1 to 3 below.

1. Fixed price expressed in €/year

This fixed price is defined in Art.8.1.1 of the contract template³. The candidate can put under this category a fixed price related to a fixed cost exclusively due to the provision of the service, either a unique cost for investment or a recurrent cost related to network tariffs⁴, irrespective from the offered production units, for instance IT communication investment. The supplier must provide Elia with a detailed justification of this cost.

2. Fixed price expressed in €/Power unit

This fixed price is defined in Art.8.1.1 of the contract template⁵. The candidate can put under this category a fixed price related to the unique cost for additional technical adjustments at a Production Unit covered by the contract so as to enable the Production Unit to supply additional reactive power on top of the minimum reactive power supplied pursuant to art. 68 to 74 of the Grid Code. The candidate must provide Elia with a detailed justification of this cost.

² for instance, investments during 2018 for equipping new production units in order to ensure delivery of the service as of January 1st, 2018

³ downloadable on Elia Website <http://www.elia.be/en/suppliers/purchasing-categories/energy-purchases/Ancillary-services/How-to-candidate-make-offer>

⁴ i.e. additional cost in Elia's tariffs for "Power Put At Disposal (PPAD)" at the offtake exclusively caused by the provision of compensator mode of the voltage and reactive power control service.

⁵ downloadable on Elia Website <http://www.elia.be/en/suppliers/purchasing-categories/energy-purchases/Ancillary-services/How-to-candidate-make-offer>

3. Activation prices expressed in €/MVARh

All activation prices are expressed in €/MVARh and are defined in the contract template⁶ at Art.8.1.3 to 8.1.6. Activation prices cover all other costs incurred by the candidate and exclusively related to the delivery of the voltage and reactive power control service.

- **Injection of active power**

INJECTION MODE				
Regulating Power Unit				
Properties of technical bands	Mvar Absorption		Mvar Production	
	<i>Q_{tech-}</i>	50%	50%	<i>Q_{tech+}</i>
2 parts of technical band >20 Mvar 0 to <i>Q_{tech+}</i> and from <i>Q_{tech-}</i>	P4	P3	P1	P2
1 part of technical band >20 Mvar Production from 0 to <i>Q_{tech+}</i>	P3		P1	P2
1 part of technical band >20 Mvar Absorption (from <i>Q_{tech-}</i> to 0)	P4	P3	P1	
2 parts of technical band <20 Mvar	P3		P1	
Non Regulating Power Unit				
	Mvar Absorption		Mvar Production	
	P10		P9	

- **In addition to the prices described here above, if a regulating production unit is able to run in compensator mode, the candidate specifies**

COMPENSATOR MODE				
Regulating Power Unit				
Properties of technical bands	Mvar Absorption		Mvar Production	
	<i>Q_{tech-}</i>	50%	50%	<i>Q_{tech+}</i>
2 parts of technical band >20 Mvar 0 to <i>Q_{tech+}</i> and from <i>Q_{tech-}</i>	P8	P7	P5	P6
1 part of technical band >20 Mvar Production from 0 to <i>Q_{tech+}</i>	P7		P5	P6
1 part of technical band >20 Mvar Absorption (from <i>Q_{tech-}</i> to 0)	P8	P7	P5	
2 parts of technical band <20 Mvar	P7		P5	

⁶ downloadable on Elia Website <http://www.elia.be/en/suppliers/purchasing-categories/energy-purchases/Ancillary-services/How-to-candidate-make-offer>