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# **Annex 5: Configurations of the Bidding zone review region “Baltic” which are to be considered in the bidding zone review process**

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Bidding Zone Review Region "Baltics"

18 February 2020

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## 1. Overview of the status quo configuration of the Bidding Zone Review Region "Baltic"

### 1.1. A summary table describing the status quo configuration

Based on the justification presented in the first paragraph, Baltic states provide only status quo configuration for the Bidding zone review.

	1	2	3	4
Configuration Name	Status Quo	Large Bidding Zones	Country Split	Small Bidding Zones
EE	1	-	-	-
LV	1	-	-	-
LT	1	-	-	-

### 1.2. Map of the BZRR for the status quo configuration

The power systems of Baltic States including Estonia, Latvia and Lithuania currently are operating in parallel with Russian and Belarus power systems as members of Integrated Power System/Unified Power System (IPS/UPS) where primary power reserves and frequency regulation is provided by Russian power system. Baltic power system together with Russia and Belarus are members of electrical BRELL ring (shortened Belarus, Russia, Estonia, Latvia and Lithuania), consisting of 330 kV, 500 kV and 750 kV transmission lines. The tight electrical interconnection of Baltic States with Russia and Belarus provided by now are reliable, flexible and secure in system operation within Baltic States and whole BRELL ring. After Baltic States joined to European Union, integration of Latvia, Lithuania and Estonia within common EU energy market has been identified as a strategic priority for the Baltic States and the EU. During the last fifteen years a couple of new interconnections from Baltic States to neighboring bidding zones have been established. The power exchanges between Nordic-Baltic and Continental Europe – Baltic have been improved. Baltic States have three HVDC interconnectors to Nordic countries (EstLink 1 between FI and EE with capacity 350 MW, EstLink 2 between FI and EE with capacity 650 MW and NordBalt between LT and SE with capacity 700 MW) and one HVDC interconnection to Continental Europe (LitPol link between LT and PL with capacity 500 MW). Full list of interconnectors is shown in paragraph 2.3. Currently Baltic States are very well connected with IPS/UPS power system and together they have nine 330 kV interconnectors to Russia/Belarus. Power exchange between Baltic States and Russia/Belarus is limited and all electricity trade is going on via Lithuania bidding zone. Such kind of approach for energy import from Russia/Belarus is applied in order not to limit the cross-border power exchange between Baltic States internally and reduce electricity dependence from non-EU countries in general. In Baltic States the cross-border capacities are quite enough. Some overloads on cross-border EE – LV have been identified and countertrade measure were applied. In order to

strengthen the EE – LV cross-border the new interconnection link is going to be built during the year of 2020.



1.3. List of network elements which are the bidding zone borders

Cty_C Bk	Border	Partner_1	Station_1	Partner_2	Station_2	kV	Type	Name	New/Different compared to status quo?
EE	EE-FI	Elering OÜ	Harku	Fingrid	Espoo	±150	DC	ESTLINK 1	No
EE	EE-FI	Elering OÜ	Püssi	Fingrid	Anttila	450	DC	ESTLINK 2	No
EE	EE-LV	Elering OÜ	Tartu	AS Augstsprieguma tīkls	Valmiera	330	AC	Tartu-Valmiera L301	No

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Cty_C Bk	Borde r	Partner_1	Station_1	Partner_2	Station_2	kV	Type	Name	New/Different compared to status quo?
EE	EE-LV	Elering OÜ	Tsirguliina	AS Augstsprieguma tikls	Valmiera	330	AC	Tsirguliina-Valmiera L354	No
EE	EE-LV	Elering OÜ	Tsirguliina	AS Augstsprieguma tikls	Valka	110	AC	Tsirguliina-Valka L677	No
EE	EE-LV	Elering OÜ	Ruismäe	AS Augstsprieguma tikls	Aluksne	110	AC	Ruismäe-Aluksne L683	No
EE	EE-RU	Elering OÜ	Eesti	RAO UES	Kingisep	330	AC	Eesti- Kingisep L373	No
EE	EE-RU	Elering OÜ	Balti	RAO UES	Leningradskaya	330	AC	Balti- Leningradskaya L374	No
EE	EE-RU	Elering OÜ	Tartu	RAO UES	Pskov	330	AC	Tartu-Pskov L358	No
LT	LT-LV	LITGRID AB	Klaipeda	Augstsprieguma tikls	Grobine	330	AC	Klaipeda –Grobine LN324	No
LT	LT-LV	LITGRID AB	Siauliai/Telsiai	Augstsprieguma tikls	Jelgava	330	AC	Siauliai/Telsiai- Jelgava LN 305/457	No
LT	LT-LV	LITGRID AB	Panevezys	Augstsprieguma tikls	Plevines HE	330	AC	Panevezys – Plevines HE LN 316	No
LT	LT-LV	LITGRID AB	Ignalinos AE	Augstsprieguma tikls	Liksna	330	AC	Ignalinos AE – Liksna LN 452	No
LT	LT-LV	LITGRID AB	Paroveja	Augstsprieguma tikls	Nereta	110	AC	Paroveja – Nereta LN 622	No
LT	LT-LV	LITGRID AB	Zarasai	Augstsprieguma tikls	Daugpilis	110	AC	Zarasai – Daugpilis LN 631	No
LT	LT-LV	LITGRID AB	Ignalinos AE	Augstsprieguma tikls	Daugpilis	110	AC	Ignalinos AE – Daugpilis LN 632	No
LT	LT-RU	LITGRID AB	Klaipeda	FSK	Sovietsk	330	AC	Klaipeda –Sovietsk LN325	No
LT	LT-RU	LITGRID AB	Jurbarkas	FSK	Sovietsk	330	AC	Jurbarkas – Sovietsk LN 326	No
LT	LT-RU	LITGRID AB	Kruonio HAE	FSK	Sovietsk	330	AC	Kruonio HAE – Sovietsk LN 447	No
LT	LT-RU	LITGRID AB	Pagegiai	FSK	0-5	110	AC	Pagegiai – 0-5 LN 104	No
LT	LT-RU	LITGRID AB	Pagegiai	FSK	0-5	110	AC	Pagegiai – 0-5 LN 105	No
LT	LT-RU	LITGRID AB	Kybartai	FSK	Nesterov	110	AC	Kybartai – Nesterov LN 130	No
LT	LT-RU	LITGRID AB	Nida	FSK	Tomoznaja Rosiji	10	AC	Nida – Tomoznaja Rosiji LN 249	No
LT	LT-RU	LITGRID AB	Nida	FSK	Rybacij	10	AC	Nida – Rybacij LN 248	No
LT	LT-RU	LITGRID AB	K. Naumiestis	FSK	P/C 2114	10	AC	K. Naumiestis – P/C 2114 LN 240	No
LT	LT-BY	LITGRID AB	Ignalinos AE	Belenergo	Polock	330	AC	Ignalinos AE – Polock LN 450	No
LT	LT-BY	LITGRID AB	Ignalinos AE	Belenergo	Smorgon	330	AC	Ignalinos AE – Smorgon LN 452	No
LT	LT-BY	LITGRID AB	Ignalinos AE	Belenergo	Beloruskaja	330	AC	Ignalinos AE – Beloruskaja LN 705	Yes
LT	LT-BY	LITGRID AB	Vilnius	Belenergo	Molodecno	330	AC	Vilnius – Molodecno LN 333	No
LT	LT-BY	LITGRID AB	Alytus	Belenergo	Grodno	330	AC	Alytus – Grodno LN 368	No

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Cty_C Bk	Bor der	Partner_1	Station_1	Partner_2	Station_2	kV	Type	Name	New/Different compared to status quo?
LT	LT-BY	LITGRID AB	Ignalinos AE	Belenergo	Opsa	110	AC	Ignalina - Opsa	No
LT	LT-BY	LITGRID AB	Ignalinos AE	Belenergo	Vidzi	110	AC	Ignalinos AE – Vidzi	No
LT	LT-BY	LITGRID AB	Didziasalis	Belenergo	Kozenai	110	AC	Didziasalis – Kozenai	No
LT	LT-BY	LITGRID AB	Svencionys	Belenergo	Lentupis	35	AC	Svencionys – Lentupis	No
LT	LT-BY	LITGRID AB	Pabrade	Belenergo	Podolci	110	AC	Pabrade - Podolci	No
LT	LT-BY	LITGRID AB	Kalveliai	Belenergo	Asmena	110	AC	Kalveliai - Asmena	No
LT	LT-BY	LITGRID AB	Salcininkai	Belenergo	Voronovo	110	AC	Salcininkai – Voronovo	No
LT	LT-BY	LITGRID AB	Leipalingis	Belenergo	Grodno	110	AC	Leipalingis – Grodno	No
LT	LT-BY	LITGRID AB	Dieveniskės	Belenergo	Subotnikai	35	AC	Dieveniskės - Subotnikai	No
LT	LT-SE4	LITGRID AB	Klaipėda	Svenska kraftnät	Nybro	±300	DC	NordBalt	No
LT	LT-PL	LITGRID AB	Alytus	Polskie Sieci Elektroenergetyczne	Elk	±70 kV	DC	LitPol Link	No
LV	EE-LV	AS Augstsprieguma Tīkls	Valmiera	Elering OÜ	Tartu	330	AC	LN 301	No
LV	LT-LV	AS Augstsprieguma Tīkls	Jelgava	Lietuvos energija AB	Šiauliai	330	AC	LN 305	No
LV	LT-LV	AS Augstsprieguma Tīkls	Pļaviņu HES	Lietuvos energija AB	Panėvežys	330	AC	LN 316	No
LV	LT-LV	AS Augstsprieguma Tīkls	Grobiņa	Lietuvos energija AB	Klaipėda	330	AC	LN 324	No
LV	EE-LV	AS Augstsprieguma Tīkls	Valmiera	Elering OÜ	Tsireguliina	330	AC	LN 354	No
LV	LT-LV	AS Augstsprieguma Tīkls	Līksna	Lietuvos energija AB	Ignalinos AE	330	AC	LN 451	No
LV	LT-LV	AS Augstsprieguma Tīkls	Nereta	Lietuvos energija AB	Paroveja	110	AC	LN 622	No
LV	LT-LV	AS Augstsprieguma Tīkls	Daugavpils	Lietuvos energija AB	Zarasai	110	AC	LN 631	No
LV	LT-LV	AS Augstsprieguma Tīkls	Daugavpils	Lietuvos energija AB	Ignalinos AE	110	AC	LN 632	No
LV	EE-LV	AS Augstsprieguma Tīkls	Valka	Elering OÜ	Tsireguliina	110	AC	LN 677	No
LV	EE-LV	AS Augstsprieguma Tīkls	Alūksne	Elering OÜ	Rusmāe	110	AC	LN 683	No
LV	LV-RU	AS Augstsprieguma Tīkls	Rēzekne	FSK OES Rosii	Velikoreckaja	330	AC	LN 309	No
LV	BY-LV	AS Augstsprieguma Tīkls	Skrudaliena	Bel Energo	Braslavu	110	AC	LN 630	No