Day Ahead Scheduling process 2018

SCHEDULING MODULE

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Nomination of daily Schedules in Day Ahead process

On the borders:

- Serbia - Hungary
- Serbia - Montenegro
- Serbia - Bulgaria
- Serbia - Bosnia & Herzegovina
- Serbia - Albania
- Serbia - Romania
- Serbia - Macedonia

There are **no changes** compared to 2017.

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Serbia – Croatia

Nomination of daily Schedules in Day Ahead process

- Starting with 2018 Long Term and Daily auctions for this border (RS-HR) will be organized by Joint Allocation Office – JAO

- Intraday allocations will remain in JSC EMS domain

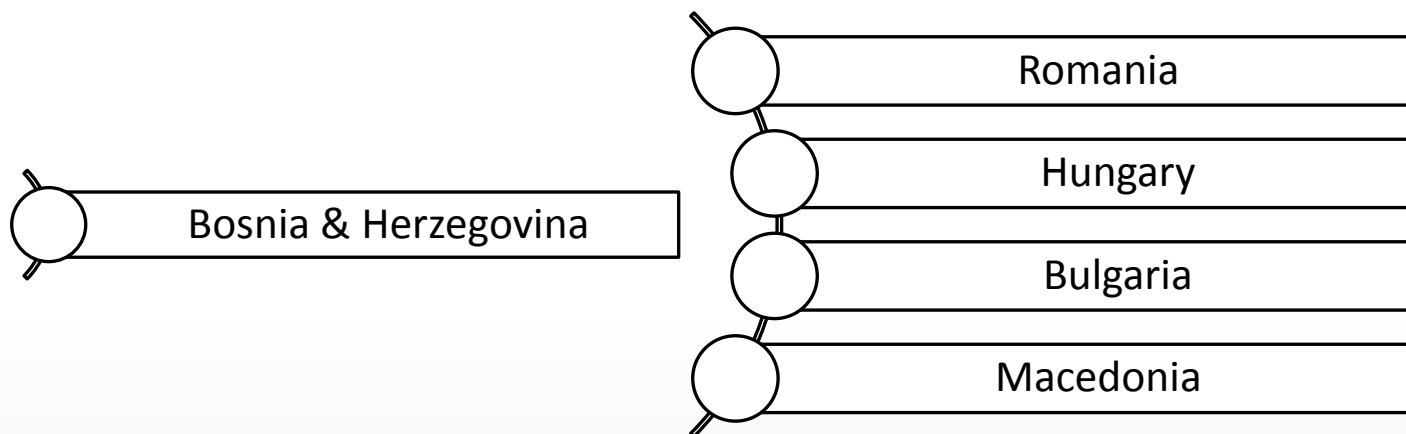- Only difference will be in Capacity Agreement Identification - CAI

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Auctions that are organized by JSC EMS

Joint

Long Term auctions	Daily auctions

Romania

Hungary

Bulgaria

Macedonia

Bosnia & Herzegovina

Split

Montenegro

Albania
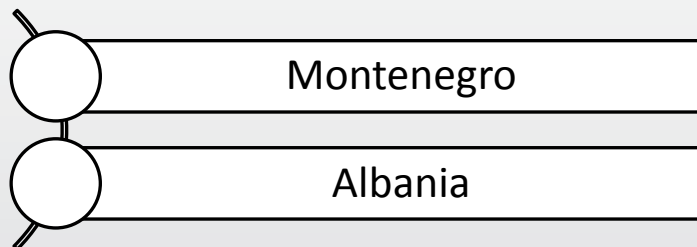
Cross-border partners   1/2

► 1:1 Nominations are <u>no longer required</u> on JOINT borders

| Serbia - Croatia |
| Serbia - Hungary |
| Serbia - Macedonia |
| Serbia - Romania |
| Serbia - Bulgaria |
| Serbia – Bosnia & Herzegovina |

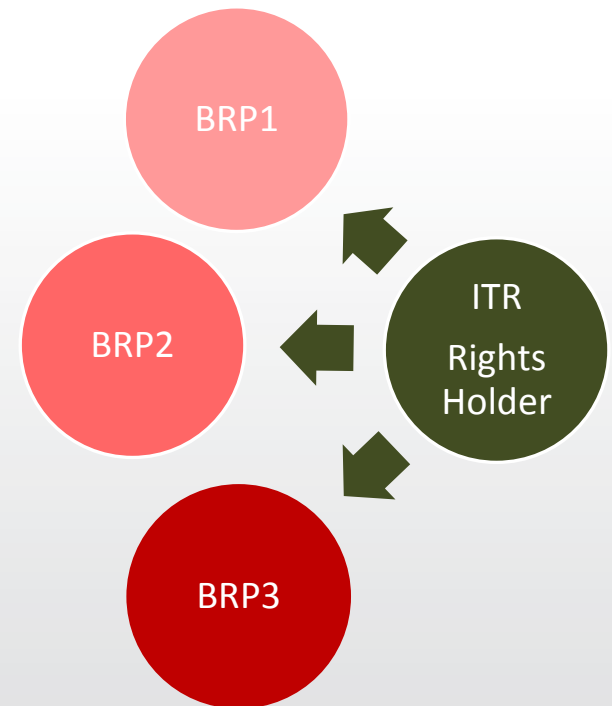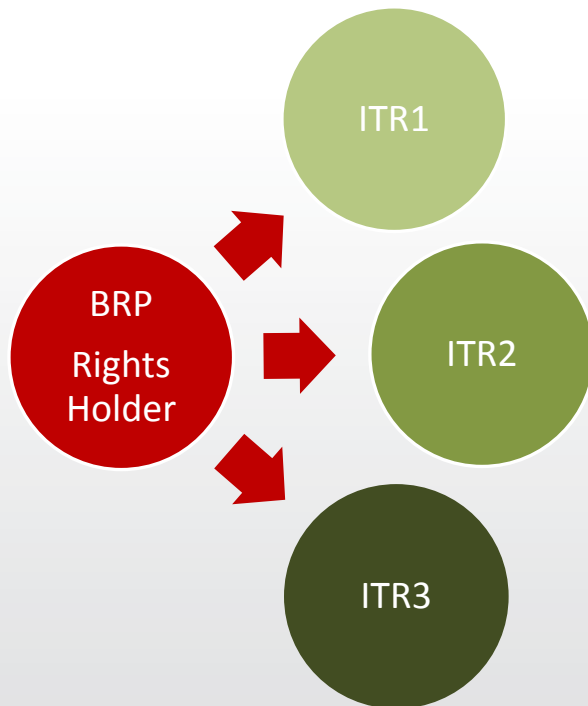► Nomination of Exclusive cross-border partners on SPLIT borders

   are <u>necessery</u>

| Serbia - Montenegro |
| Serbia - Albania |

* This rule is not applied for Serbian BRP-s who are Right Holders of cross-border capacity.

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Cross-border partners 2/2

➡ Cross-border partners will be no longer necessary. Right Holders can nominate exchange with any Registered Participant **which fulfils requirements according to allocation rules** in neighbouring Control Area (M:N model)

ITR1

BRP Rights Holder

ITR2

ITR3

BRP1

BRP2

ITR Rights Holder

BRP3

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SPLIT Borders

- Cross-border exchange between EMS Control Area and CGES Control Area is done according to „Grid code" and „Rules for Allocation of Available Cross-Border Transfer Capacities on Borders of EMS Control Area"

- Cross-border exchange between EMS Control Area and OST Control Area is done according to „Grid code" and „Rules for Allocation of Available Cross-Border Transfer Capacities on Borders of EMS Control Area"

* Grid Code – is going to suffer some slight changes when JSC EMS starts with new Novita Scheduling System.

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Problems BRPs are facing with schedule nomination process

In case when BRP nominates wrong direction of cross-border exchange or wrong partner in cross-border exchange, modification of TPS consists of:

- ➡ Setting the values of previously nominated cross-border exchange to zeroes

- ➡ Creating a new cross-border exchange (new Time Series) with the correct data

In case when BRP nominates internal trade with SEEPEX:

- ➡ BRP is obligated to submit netted values in all hours

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9 KOSTT in EMS Control Area

All exchanges between EMS Control Area and KOSTT will be nominated as internal trade between BRP in EMS Control Area and EIC *10XRKS-KOSTT-007*

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New Market Management System - Novita

➡ Novita's Market Management System consists of 3 modules:

➡ Scheduling System (ESS)

➡ Balancing System

➡ Settlement System

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Balance Responsible Schedules

▶ For every role Balance Responsible Party submits one schedule:

   ▶ Trade Responsible Party – Trade Responsible Schedule

   ▶ Consumption Responsible Party – Consumption Responsible Schedule

   ▶ Production Responsible Party – Production Responsible Schedule

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Schedule Message

- Balance Responsible Party can submit <u>only one Schedule Message</u> per role per day

- System will accept Schedule Message with global position not in balance

- The EIC *34X-DEBALANS---H* <u>*will no longer be in use*</u>

- Schedule Message can be manualy created in Scheduling Web Client application, imported as XML into Scheduling Web Client application or sent via authorized e-mail addresses

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Nomination Gates in Day Ahead Process 1

➡ Balance Responsible Parties will be able to submit their Balance Responsible Schedules 7 days ahead but Scheduling System will check for syntax and semantic errors only

➡ Checking of the Capacity Contracts will be done only after Rights Documents Gate closure

➡ Time of Rights Documents Gate closure vary from border to border, but after 16:00h CET D-2 all Rights Document Gate for day D will be closed

➡ After Rights Documents Gate closure Balance Responsible Parties will receive Anomaly concerning missing or exceeded Capacity Contract

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Nomination Gates in Day Ahead Process 2

➡ **Nominations of long-term** (A04 and A03) exchanges on borders with **JOINT auctions** shall be sent before 08:00 CET in day D-1 (trading day) for day D (delivery day)

➡ **Nominations of long-term** (A04 and A03) exchanges on borders with **SPLIT auctions** shall be sent before 14:30 CET in day D-1 (trading day) for day D (delivery day)

*Capacity Contract Type remains A05, and includes Yearly, Monthly and Weekly capacity

➡ **Nominations of short-term** (A01) cross-border exchanges shall be sent before 14:30 CET in day D-1 (trading day) for day D (delivery day). For both SPLIT and JOINT borders

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Nomination Gates in Day Ahead Process 3

➡️ Nominations of internal transaction, Consumption Responsible Schedule and Production Responsible Schedule shall be sent before 14:30 CET in day D-1 (trading day) for day D (delivery day)

➡️ Checking of the internal mismatch and imbalance will be done only on predefined Internal Matching Gates

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Message Identification, Type and Version

➡ Schedule Message Identification is arbitrarily. Maximum length is 35 signs. Only alphanumeric signs, hyphen (-) and underscore (_) are allowed. Note: Blanco is not allowed

➡ Schedule Message Identification for adequate role has to be unique for every day

➡ Message Type is always A01 – Balance Responsible Schedule

➡ Message Version has to be greater than or equal to maximum Time Series Version in Schedule

➡ When Schedule Message is being sent again, Message Version must be increased

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Transition to Novita Scheduling System

<?xml version="1.0" encoding="utf-8"?>
<ScheduleMessage DtdVersion="3" DtdRelease="3">

Process Type	A17 – Schedule day
Sender Role	A01 – Trade Responsible party
	A08 – Balance Responsible Party
Object Aggregation	For external trade Time Series
	A04 – Agreement Identification

*Atribute Metering Point Identification shall not be used anymore for external trade.

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Time Series Identification and Version

- Time Series Identification is arbitrarily. Maximum length is 35 signs. Only alphanumeric signs, hyphen (-) and underscore (_) are allowed. Note: Blanco is not allowed

- Time Series Identification has to be unique within the Schedule Message

- Time Series Version has to be lower than or equal to Schedule Message Version

- When values in Time Series are modified, Time Series Version must be increased, as well as the Message Version

- Version of Confirmed Time Series cannot be changed

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Domain

- New atribute is being introduced for nomination of Production Responsible Schedule and Consumption Responsible Schedule – Domain

- Domain should be placed after „ScheduleTimeInterval" and before „ScheduleTimeSeries"

- Domain EIC for Production Responsible Schedule: **34Y-ESS-PRP----7**

- Domain EIC for Consumption Responsible Schedule: **34Y-ESS-CRP----0**

<ScheduleTimeInterval v="2017-03-20T23:00Z/2017-03-21T23:00Z"/>
<Domain v="34Y-ESS-CRP----0" codingScheme="A01" />
<ScheduleTimeSeries>

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Capacity Contract

- Capacity Contract Type and Capacity Agreement Identification rules will remain the same

- Right Holder will be Market Participant who obtain Capacity in an Auction

- Right Holder must be either IN Party or OUT Party in external trade

- Balance Responsible Parties can see only their Capacity Contracts

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External Matching in Day Ahead Process

- Matching process on borders will be carried through Long-term and Short-term Matching cycles every day for following day

- During Matching cycles, only Balance Responsible Party with external mismatch will be able to submit new version of Schedule Message with modification on concerning border

- Once confirmed Time Series cannot be changed

- Time Series Confirmation for external transactions will be created for every border separately after successful matching

- In case of long-term mismatch on borders with Joint auctions Cut-off will be performed at 08:30 CET D-1 for D

- In case of short-term mismatch or long-term mismatch on borders with Split auctions, Cut-off will be performed at 15:30 CET D-1 for D

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Internal Matching in Day Ahead Process

▸ First Internal Matching Gate will be at 12:00 CET in D-1 for D

▸ After receiving first Anomaly, next one will be initiated after every change of internal mismatch during next Internal Matching Gate

▸ Cut-off for internal transactions is at 15:30 CET D-1 for D

▸ Time Series Final Confirmation for internal transactions will be created at 15:30 CET

| 12:00 | 13:00 | 13:30 | 14:15 | 14:30 | 14:45 | 15:15 | 15:30 |

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Power Exchange Matching in Day Ahead Process

➡ In case of mismatch between internal trade nominated by BRP and by Power Exchange, system will impose values nominated by Power Exchange (SEEPEX)

➡ Cut-off will be performed at Internal Gate Closure (14:30 CET in D-1 for D)

➡ Time Series Final Confirmation for internal transactions with Power Exchange will be created at Cut-off Gate

➡ Confirmed Time Series with Power Exchange cannot be changed

Reasons:

A09 - Time series not matching
Time series not matching
A29 - Counterpart time series quantity differences
Counterpart time series quantity differences
A90 - Modification proposal (intermediate confirmation)
Modification proposal (intermediate confirmation)

General	Intervals		
			2.11.17
			Thu
		Qty	Reason
01	0:00 - 0:15	19.3	A43 - Quantity increased from 0 to 19,3.
	0:15 - 0:30	19.3	A43 - Quantity increased from 0 to 19,3.
	0:30 - 0:45	19.3	A43 - Quantity increased from 0 to 19,3.
	0:45 - 1:00	19.3	A43 - Quantity increased from 0 to 19,3.
02	1:00 - 1:15	7	A43 - Quantity increased from 0 to 7.
	1:15 - 1:30	7	A43 - Quantity increased from 0 to 7.
	1:30 - 1:45	7	A43 - Quantity increased from 0 to 7.
	1:45 - 2:00	7	A43 - Quantity increased from 0 to 7.
03	2:00 - 2:15	7	A43 - Quantity increased from 0 to 7.
	2:15 - 2:30	7	A43 - Quantity increased from 0 to 7.
	2:30 - 2:45	7	A43 - Quantity increased from 0 to 7.
	2:45 - 3:00	7	A43 - Quantity increased from 0 to 7.
04	3:00 - 3:15	0	
	3:15 - 3:30	0	

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Information Board

- Period of System unavailability 23:50:00 – 00:10:00

- Go live of Production System: Monday, 04.12.2017.

- Web Client for Novita Production System:

https://mms.ems.rs/External-Scheduling-Client

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Questions?

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Thank you for your attention!

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