

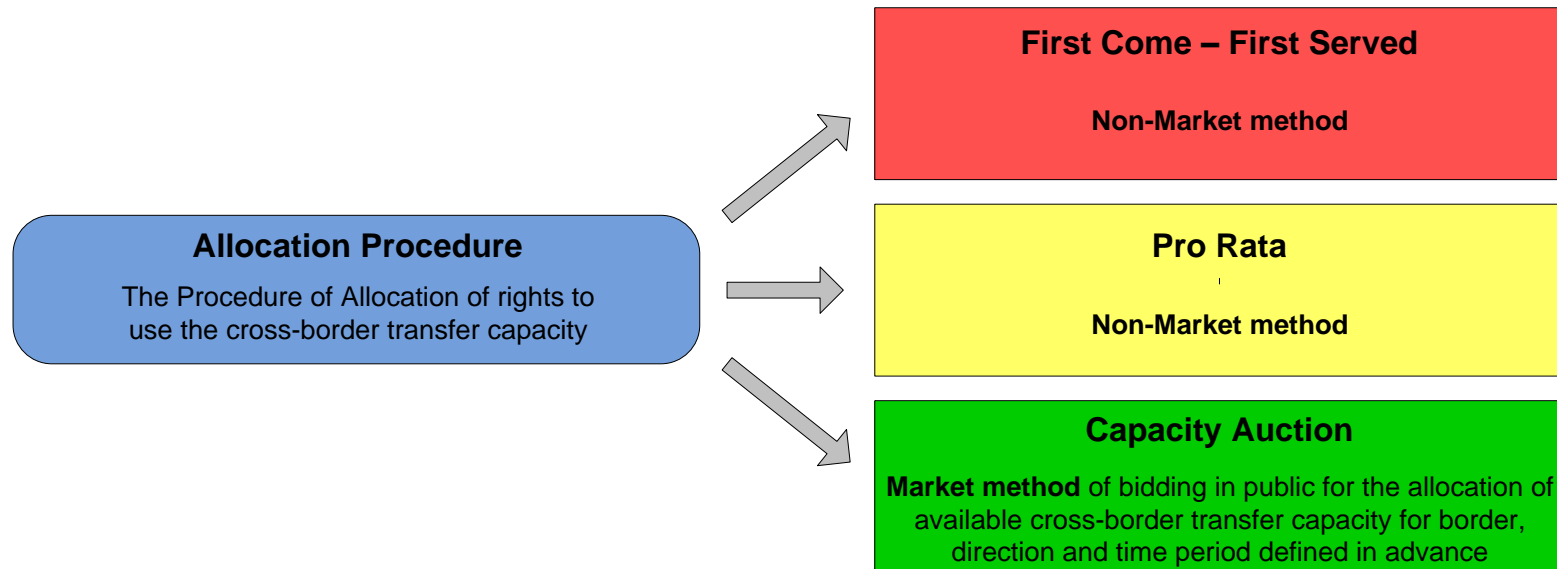
# Allocation of Available Cross-Border Transfer Capacities

**Market Division,  
Belgrade, 2015.**



ЈАВНО ПРЕДУЗЕЋЕ  
ЕЛЕКТРОМРЕЖА СРБИЈЕ

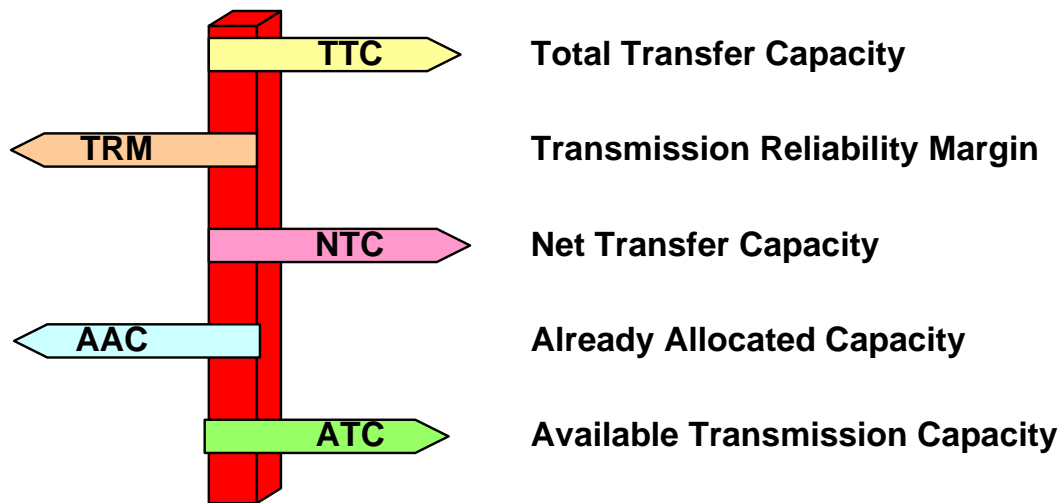
# Allocation of Available Cross-Border Transfer Capacities



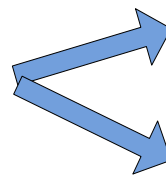
- **Split Auction** – Both of TSOs organize auction for allocation of 50% of available capacity on common border
- **Joint Auction** – One of TSOs organize auction for allocation of 100% of available capacity on common border
- **Long-term Auction** – auction for allocation of capacity on Yearly, Monthly or Weekly level
- **Daily Auction** – auction for allocation of capacity on Daily level
- **Intraday allocation** – allocation of capacity on Intraday level

# Cross-Border Transfer Capacity

- JP EMS determines the values of cross-border transfer capacity and performs their harmonization with the neighboring TSOs
- Carries out the Allocation Procedure for allocation of rights for usage of cross-border transfer capacities



$$\text{NTC} = \text{TTC} - \text{TRM}$$



Split Auction



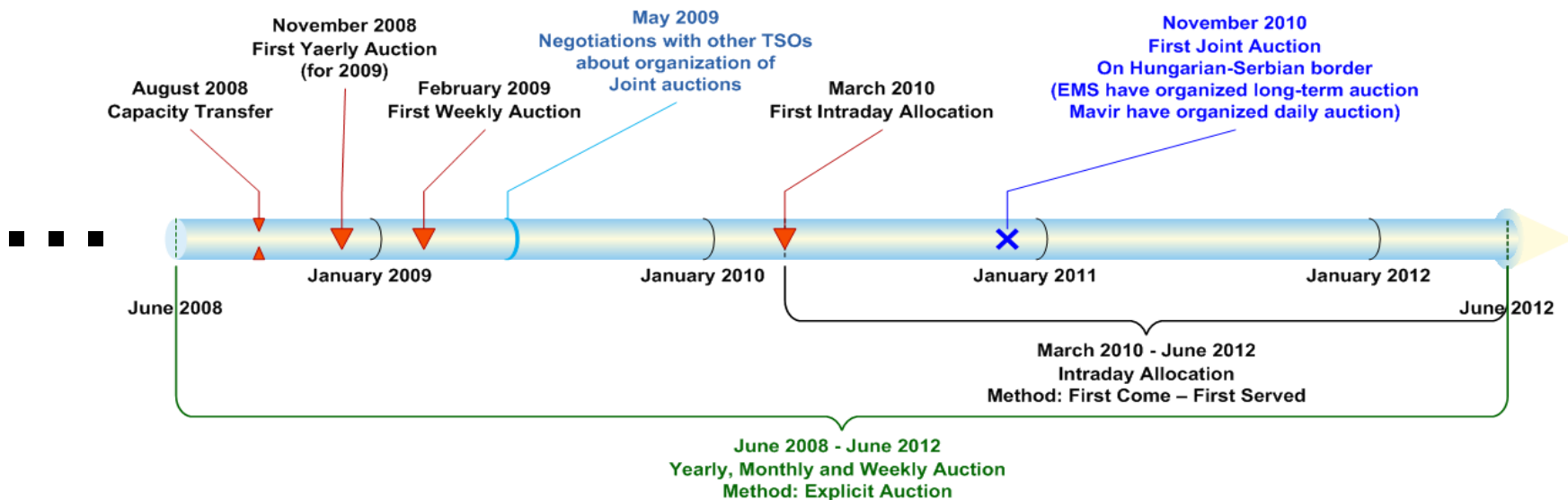
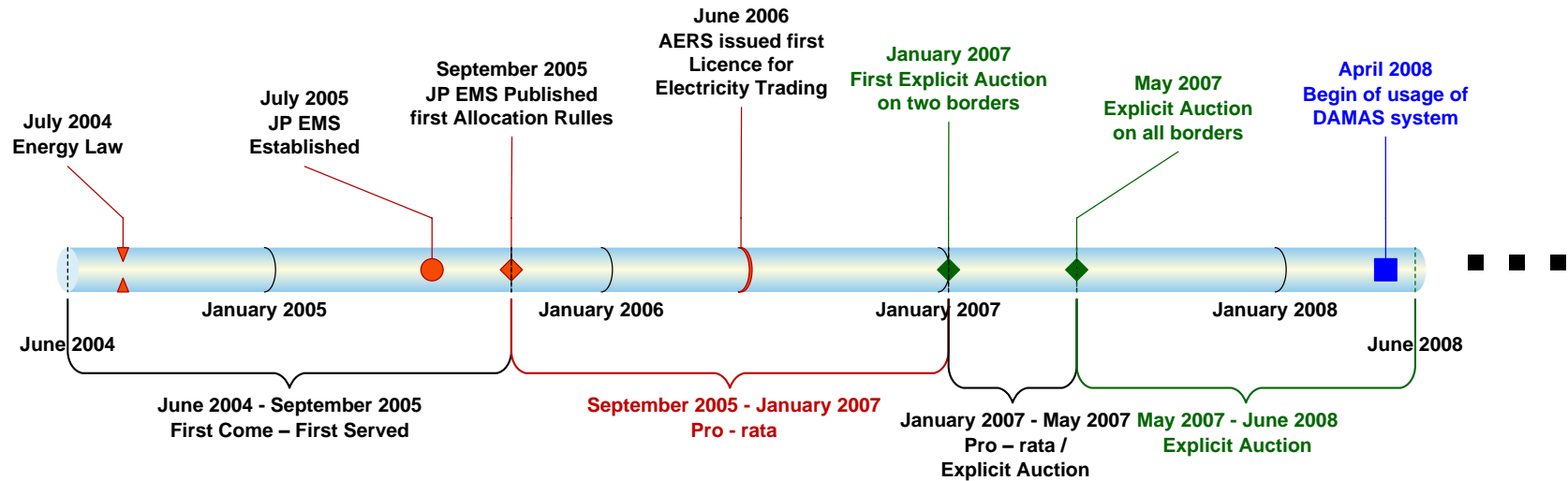
$$\text{ATC} = \text{NTC}/2 - \text{AAC}$$

Joint Auction

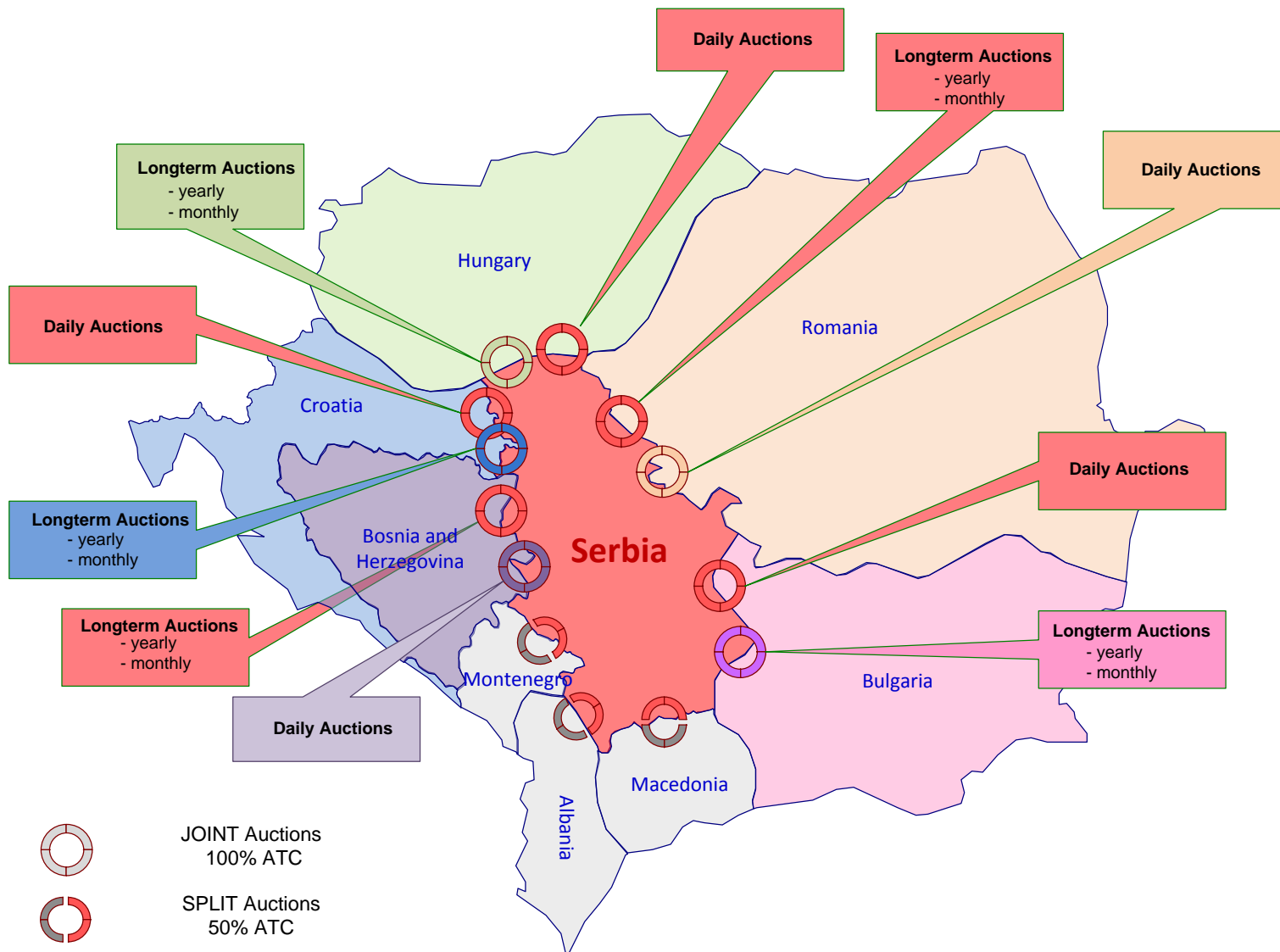


$$\text{ATC} = \text{NTC} - \text{AAC}$$

# Development of Capacity Allocation in Regulation Area of Serbia



# Allocation of Available Transfer Capacities – 2016



➤ **Development of Capacity allocation:**  
 Establishment of joint auctions on all borders of JP EMS control area

# Capacity Allocation – Auction Specification

## Split auctions

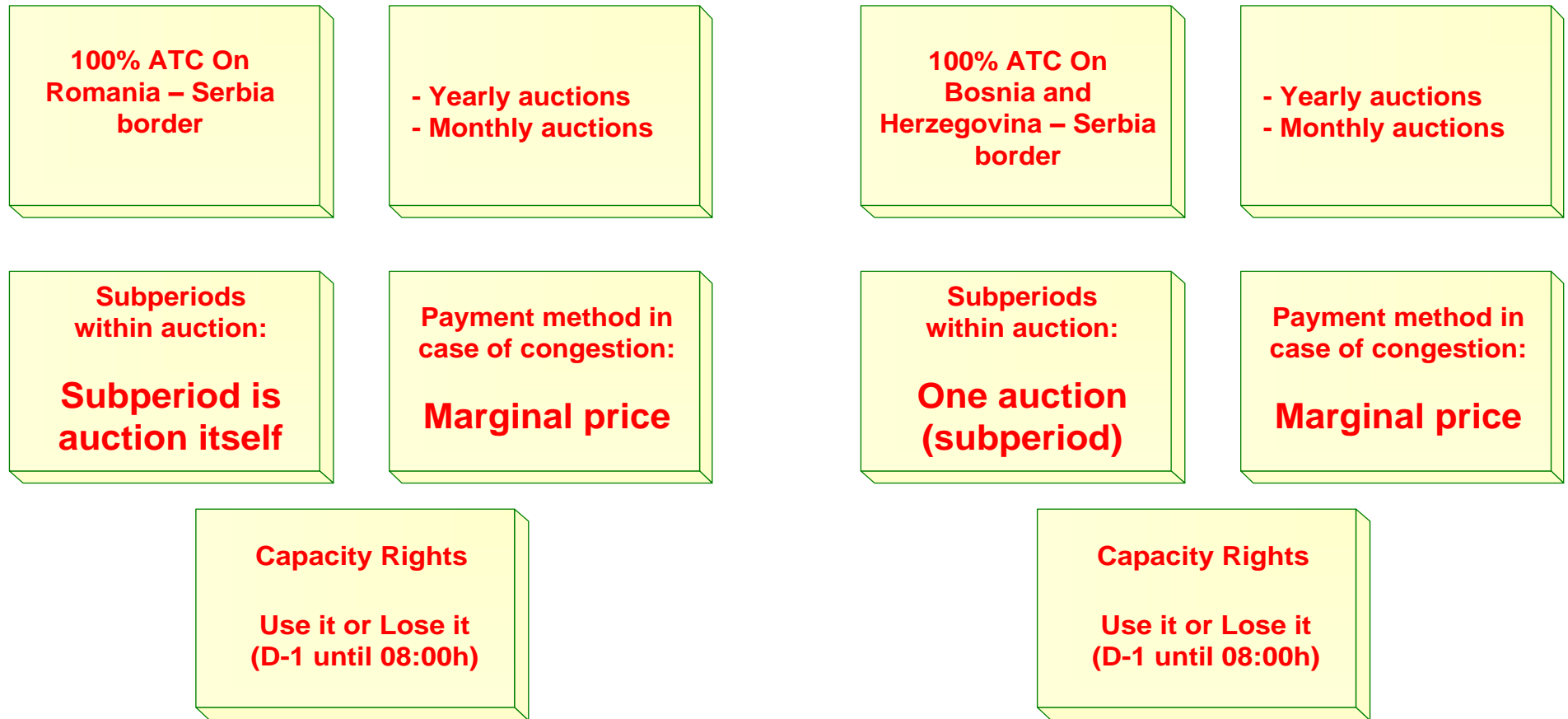


➤ Intraday capacity allocation: First-come, First-served on all borders

➤ Auctions are held exclusively via DAMAS IT system and all processes are automatic.

# Capacity Allocation – Auction Specification

## Joint auctions



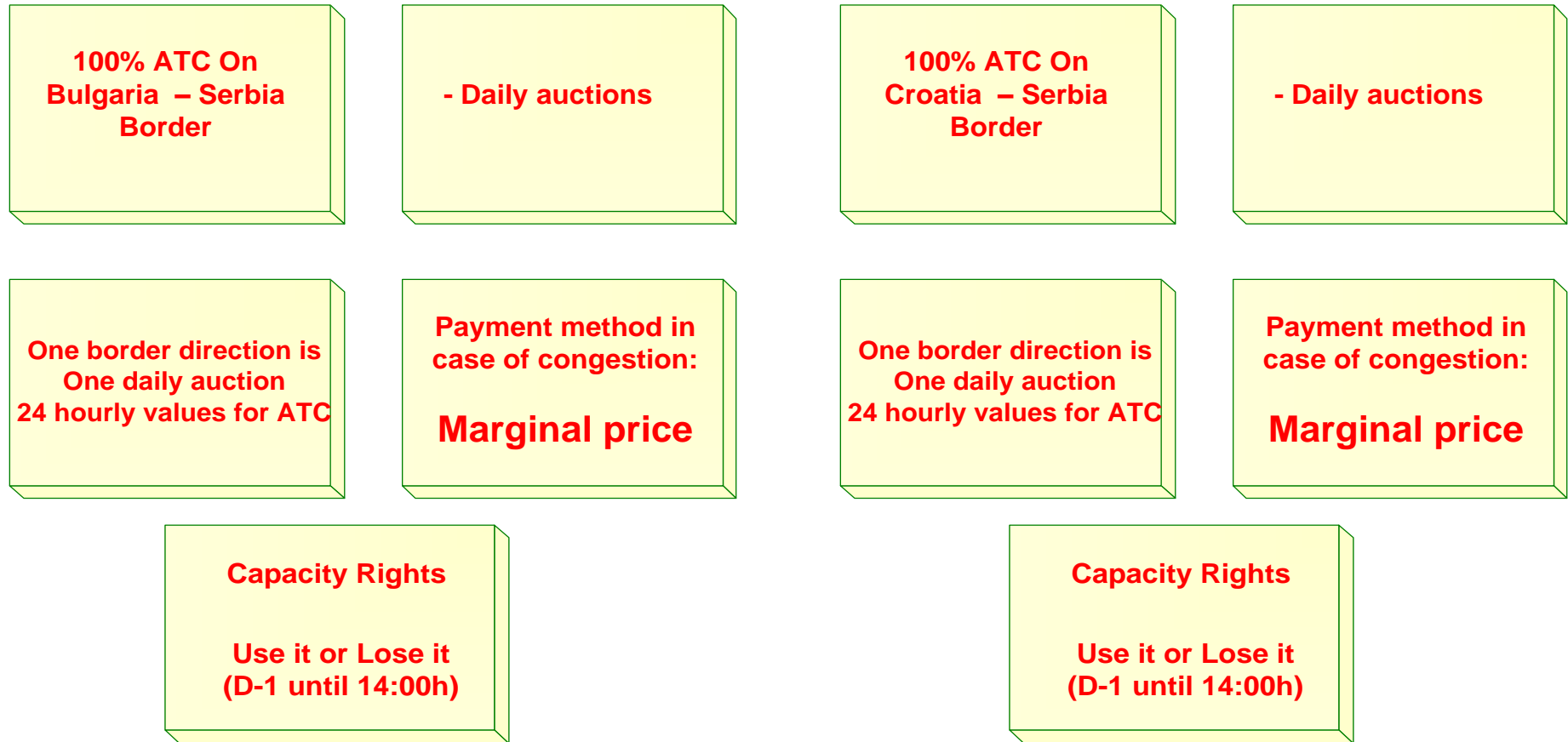
➤ Intraday capacity auction: Organized by Romanian TSO

➤ Intraday capacity allocation: Organized by NOSBIH

➤ Auctions are held exclusively via DAMAS IT system and all processes are automatic.

# Capacity Allocation – Auction Specification

## Joint auctions



➤ Intraday capacity allocation: No intraday allocation for this border

➤ Intraday capacity allocation: Continuous, First-come First-served

➤ Auctions are held exclusively via DAMAS IT system and all processes are automatic.



# Capacity Allocation – Auction Specification

## Joint auctions

**100% ATC On  
Hungary – Serbia  
border**

**- Daily auctions**

**One border direction is  
One daily auction  
24 hourly values for ATC**

**Payment method in  
case of congestion:**

**Marginal price**

**Capacity Rights**

**Use it or Lose it  
(D-1 until 14:00h)**

- Intraday capacity allocation:
  - First-come, First-served;
  - participant registration required;
  - day divided in 6 sessions

➤ Auctions are held exclusively via DAMAS IT system and all processes are automatic.

# DAMAS system – EMS IT System for Capacity Allocation

- **Internet-based system**
  - Available from anywhere at any time
  - User-friendly interface
- **Transparency of trading**
  - Published business information
  - All data can be tracked down
- **High-security standard**
  - Encrypted data flows
- **DAMAS is compatible with established standards:**

**ECAN 2.0**

ENTSO-E standard for  
Allocation of Capacity

**ESS 2.3**

ENTSO-E standard for  
Nomination

**EIC**

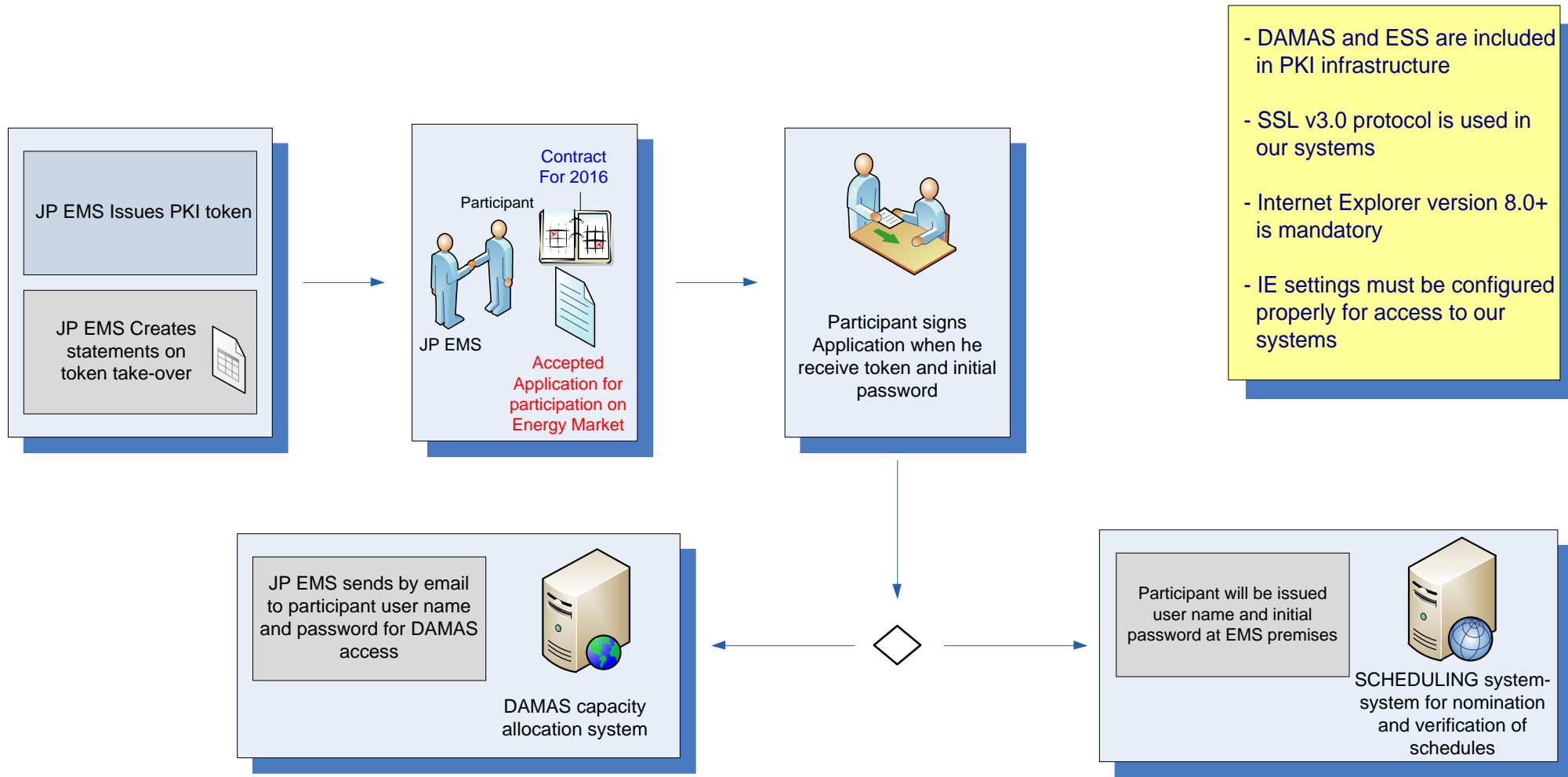
EIC coding convention

- **DAMAS can support multiple languages (in our case Serbian and English)**

# General Features of DAMAS system

- Long-term Auction
- Capacity Transfer
- Capacity Curtailment
- Daily Auction
- Intraday Allocation
- Administration of Allocated Capacity - Capacity Rights
- Invoicing

# Access to JP EMS IT systems (DAMAS and SCHEDULING)



➤ For delivering schedules Participant must have valid contract on balancing responsibility with JP EMS

# DAMAS System- System Access

EMC Welcome on the EMS Web Site  
ЈАВНО ПРЕДУЗЕЋЕ ЕЛЕКТРОМРЕЖА СРБИЈЕ → THE COMMUNICATION KIOSK

Damas

Auction System 1.11.2007, 17:51

Login name

Password

OK

(DAMAS) © 2007 UNICORN

- **Access to DAMAS system is secured by:**
  - PKI token – electronic key with digital certificate
  - User name
  - Password

# DAMAS System - Main Page

- **Displayed after login**
  - Menu, current user, system date/time, toolbar, messages
- **Users are notified of system events through messages**
  - Users receive messages depending on their access rights
  - Attachments with processing results
- **Available functionalities:**
  - Deleting selected messages
  - Automatic overwriting of old messages
  - Message paging and filtering

EMC Welcome on the EMS Web Site  
ЈАВНО ПРЕДУЗЕЋЕ ЕЛЕКТРОМРЕЖА СРБИЈЕ → THE COMMUNICATION KIOSK

Damas

Logged user: Auction Participant 01 (10XAUC-PAR----01) 26.8.2014, 15:13

- Administrator Admin(EMS Managers), 26.8.2014 12:01:11  
It is past gate closure for capacity transfers for day 29.8.2014 and border direction ROMANIA-SERBIA (100%).
- Administrator Admin(EMS Managers), 26.8.2014 12:01:10  
It is past gate closure for capacity transfers for day 29.8.2014 and border direction SERBIA-ROMANIA (100%).
- Administrator Admin(EMS Managers), 26.8.2014 12:00:27  
It is past gate closure for capacity transfers for day 29.8.2014 and border direction MACEDONIA-SERBIA (50% RS).
- Administrator Admin(EMS Managers), 26.8.2014 12:00:25  
It is past gate closure for capacity transfers for day 29.8.2014 and border direction SERBIA-BOSHERZ (50% RS).
- Administrator Admin(EMS Managers), 26.8.2014 12:00:20  
It is past gate closure for capacity transfers for day 29.8.2014 and border direction MONTENEG-SERBIA (50% RS).
- Administrator Admin(EMS Managers), 26.8.2014 12:00:20  
It is past gate closure for capacity transfers for day 29.8.2014 and border direction SERBIA-MONTENEG (50% RS).
- Administrator Admin(EMS Managers), 26.8.2014 12:00:20  
It is past gate closure for capacity transfers for day 29.8.2014 and border direction BOSHERZ-SERBIA (50% RS).
- Administrator Admin(EMS Managers), 26.8.2014 12:00:20  
It is past gate closure for capacity transfers for day 29.8.2014 and border direction KOSOVO-SERBIA (50% RS).
- Administrator Admin(EMS Managers), 26.8.2014 12:00:20  
It is past gate closure for capacity transfers for day 29.8.2014 and border direction SERBIA-HUNGARY (100%).
- Administrator Admin(EMS Managers), 26.8.2014 12:00:19  
It is past gate closure for capacity transfers for day 29.8.2014 and border direction HUNGARY-SERBIA (100%).

About  
End

DSRBAST © 2014 UNICORN

# DAMAS System – Long-term Auction – Auction Specification

- **Auction Period:**
  - Yearly, Monthly and Weekly
- **Auction Product:**
  - base, peak, off peak and products defined by auction administrator
- **Auction Configuration:**
  - Min and max bid value
  - Max number of bids
  - Min bid price value
- **Auction evaluation algorithm:**
  - Marginal price
  - Pay as bid
- **Long-term Auction Process overview**
  - All processes are automatic

The screenshot displays the 'Long-term Auction' interface. At the top, it shows the EMC logo (ЈАВНО ПРЕДУЗЕЋЕ ЕЛЕКТРОПРЕВЕНА СРБИЈЕ) and the Damas logo. The user is logged in as 'Auction Participant 1 (34X-apatip-01)' on 3.11.2010 at 11:00.

**Auction Details:**

- Auction ID: RSHU-M-15112010-14045
- Auction Type: Monthly
- Date From: 15.11.2010
- Date To: 20.11.2010
- Border Direction: SERBIA-HUNGARY (100%)

**Product Information:**

Product	Auction Product	ATC [MW]
BASE	RSHU1_Monthly_Base	70

**Reservation Subperiods:**

Date From	Hour	Date To	Hour	ATC in RS [MW]
16.11.2010	1.	17.11.2010	24.	20

**Process Timeline:**

Process	Date	Time
Publish long-term auction and ATC	04.11.2010	12:00
Open submitting of bids for long-term auction	06.11.2010	09:00
Close submitting of bids for long-term auction	06.11.2010	13:00
Publish long-term auction results	06.11.2010	17:00
Convert auction results to hourly values	06.11.2010	17:00

**Configuration Parameters:**

Configuration Parameter	Parameter Value
Auction evaluation algorithm	Marginal Price
Maximum bid number for Auction Participant	5
Minimum value of the bid [MW]	1
Maximum value of the bid [MW]	30
Minimum bid price [EUR/MWh]	.01
Auction fee [EUR]	0

# DAMAS System – Long-term Auction Bids

- Bidding directly in web application

The screenshot shows the 'Long-term Auction Bids' interface. At the top, it displays the EMC logo and 'Long-term Auction Bids' title. The user is logged in as 'Auction Participant 1 (34X-tparticip-01)' on 3.11.2010 at 11:17. The interface includes several dropdown menus for 'Year' (2010), 'Border Direction' (SERBIA-HUNGARY (100%)), 'Auction Type' (Monthly), and 'Auction ID' (RSHU-M-15112010-14045). There are 'List Update' and 'Show data' buttons. Below this, a summary section lists auction details: Auction Participant 1, Auction ID RSHU-M-15112010-14045, Border Direction SERBIA-HUNGARY (100%), Auction Type Monthly, Auction Product RSHU1\_Monthly\_Base, and Auction Period 15.11.2010 - 20.11.2010. At the bottom, there are 'New' and 'Save' buttons and a table of bids.

Bid Number	ATC [MW]	Bid Amount [MW]	Bid Price [EUR/MWh]	Delete
	70	5	4.75	✘
	70	6	4.25	✘
	70	8	2	✘
	70	10	1.54	✘
	70	0	0	✘
<b>Total</b>		<b>29</b>		

- Upload ECAN XML file (BID Document)

The screenshot shows the 'Long-term Bids Upload (XML)' interface. It features the EMC logo and 'Long-term Bids Upload (XML)' title. The user is logged in as 'A Trading s.r.o (10X-ATRADE-----1)' on 1.11.2007 at 19:22. The main area contains an 'Upload XML file' label, a text input field with the path 'C:\LongTermAuctionBids.xml', and a 'Procházet...' button. Below this is a large 'OK' button.

- **Every bid contains:**
  - Auction Period
  - Auction identification
  - Bid Amount – requested capacity [MW] (integer)
  - Bid Price – offered price [EUR/MWh] (real with 2 digits)
  - Each bid is divisible – could be partially accepted

- **Processing of auction bids:**
  - Auction Participant are informed immediately about bid status
  - A unique ID is assigned to each bid
  - Bids can not be removed
    - Bid amount and bid price could be set to zero



# DAMAS System – Long-term Auction Results I

- **Congestion: Total Requested Capacity > ATC**
- Only in the case of congestion auction participant is obliged to pay fee for allocated capacity: **CBCRF = Allocated Capacity x Bid Price x Hours**
- **The algorithm used for auction evaluation:**
  - Bids are aligned by the bid price in descending order
  - Bids are added step by step till ATC value
  - The last accepted Bid may be reduced in case the remaining ATC is less than the value of the Bid. The Bid is reduced to the value equal to the remaining ATC. In case when there are several lowest ranking Bids with the same price and the remaining ATC is less than the sum of those Bids, the reduction will be performed proportionally for all Bids.
- **Bid status:**
  - Accepted
  - Partially accepted
  - Rejected
- **Auction results overview:**
  - Auction Results only for auction participant
  - Public results

Logged user: Auction Participant 1 (34X-aparticip-01) 3.11.2010, 11:32

Year: 2010  
 Border Direction: SERBIA-HUNGARY (100%)  
 Auction Type: Monthly **List Update**  
 Auction ID: RSHU-M-15112010-14045 **Show data**

---

Auction Participant: Auction Participant 1  
 Auction ID: RSHU-M-15112010-14045  
 Border Direction: SERBIA-HUNGARY (100%)  
 Auction Type: Monthly  
 Auction Product: RSHU1\_Monthly\_Base  
 Auction Period: 15.11.2010 - 20.11.2010

---

Bid Number	ATC [MW]	Bid Amount [MW]	Bid Price [EUR/MWh]	Allocated Capacity [MW]	Auction Price [EUR/MWh]	Bid Status
10001734	70	5	4.75	5	2.00	✓
10001735	70	6	4.25	6	2.00	✓
10001736	70	8	2.00	2	2.00	✓
10001737	70	10	1.54	0	2.00	✗
<b>Total</b>		<b>29</b>		<b>13</b>		

---

Reservation Subperiods					
Date From	Hour	Date To	Hour	ATC in RS [MW]	Allocated Capacity in RS [MW]
16.11.2010	1.	17.11.2010	24.	20	3

---

Long-term Auction Statistics					
Total Requested Capacity [MW]	Total Allocated Capacity [MW]	Auction Price [EUR/MWh]	Number of Auction Participants	Number of Auctions Participants with non-zero allocated capacity	Number of bids
121	69	2.00	3	3	10

(DAMAS) © 2007 UNICORN

# DAMAS System – Long-term Auction Results II

- Possibility to download ECAN XML file (Allocation Results Document) with long-term auction results

The screenshot shows the DAMAS system interface. At the top, it says "EMC Welcome on the EMS Web Site" and "Damas". The user is logged in as "Auction Participant 1 (34X-aparticip-01)". On the left, there is a navigation menu with categories: AUCTION, LONG-TERM AUCTION, TRANSFERS, MESSAGES, and SYSTEM TOOLS. The "LONG-TERM AUCTION" category is expanded, showing options like "Long-term Auction List", "Long-term Auction Bids", "Long-term Bids Upload (XML)", and "Long-term Results Download (XML)". The main content area displays a list of recent events, including "Auction Manager(EMS Managers)" and "AP1\_test(Auction Participant 1)".

The screenshot shows the "Long-term Results Download (XML)" page. It features a search form with the following fields: "Year" (set to 2010), "Border Direction" (set to SERBIA-HUNGARY (100%)), "Auction Type" (set to Monthly), and "Auction ID" (set to RSHU-M-15112010-14045). There are two buttons: "List Update" and "Generate". The page also includes the EMC logo and the DAMAS logo.

# Transparency – Public Results – Publishing of Long-term Auction Results


- On DAMAS system – before 17:00 CET in the day of submitting requests
- On web-site JP EMS – before 17:00 CET in the day of submitting requests
- On web-site JP EMS – 5 days after day of submitting requests, published graphical representation of the submitted bids with the defined pair capacity-price

## Резултати аукција

Ви сте овде: Почетна > Тржиште електричне енергије > Додела прекограничних капацитета > Аукција за доделу 50% капацитета > Месечне аукције > Резултати аукција

ЈП Електроурежа Србије објављује резултате месечних аукција за сваку границу и смер у дану спровођења аукција. Подаци који се објављују су:

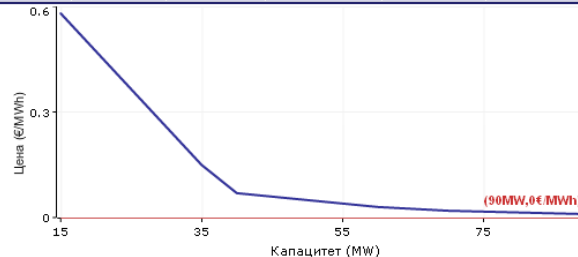
- Укупни понуђени капацитет
- Укупни захтевани капацитет
- Аукциона цена
- Број учесника који су учествовали у аукцији
- Број учесника на аукцији који су добили обећани капацитет
- Број достављених понуда током аукције

 Резултати алокационих процедура за НОВЕМБАР 2013.



Година: 2013 Месец: Јануар Одаберите смер: ALRS1 Прикажи

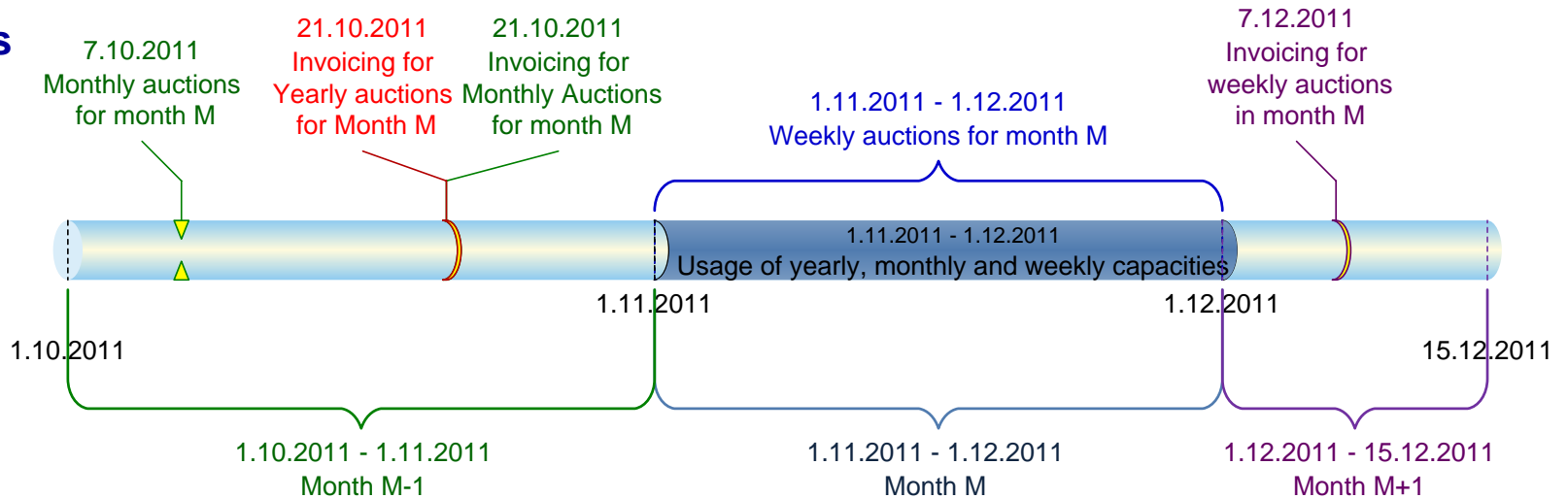
Граница/Смер: Албанија-Србија							
Аукциони период: 01.01.-31.01.2013							
АТЦ	Укупан захтевани капацитет (MW)	Укупан додељени капацитет (MW)	Број учесника који су поднели захтев	Број учесника који су добили преносни капацитет	Укупан број аукцијских понуда	Цена последње прихваћене понуде (€/MWh)	Загушење (да/не)
101	90	90	5	5	7	0	НЕ



# Invoicing Deadlines

## ➤ Split auctions

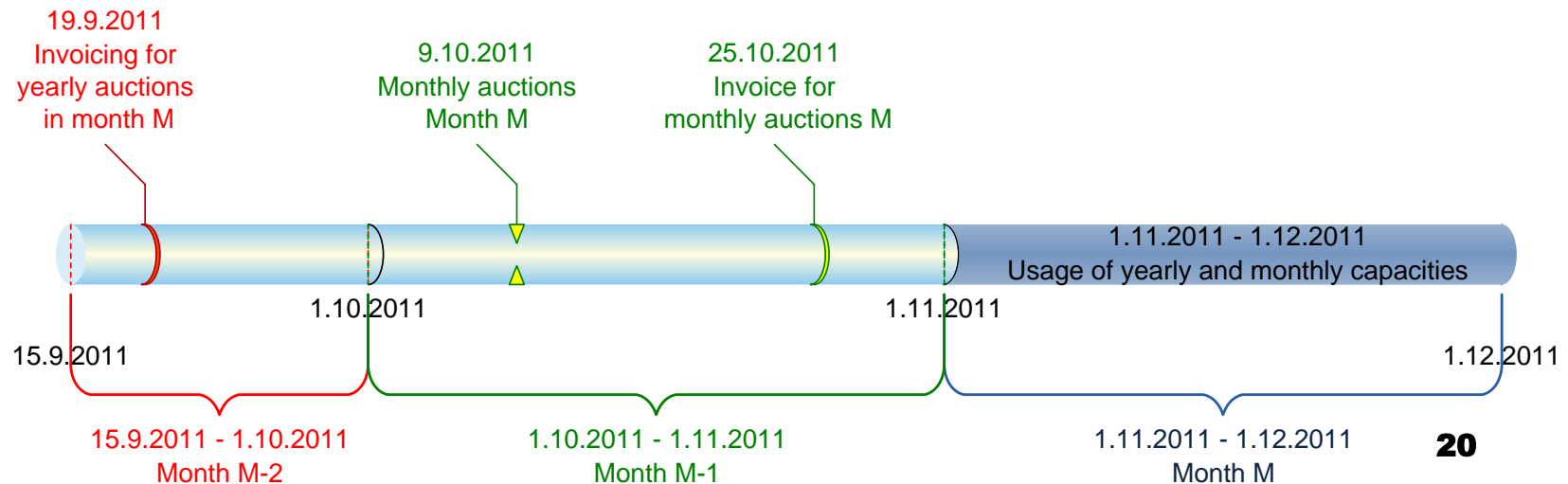
Invoice is with VAT included



## ➤ Joint auctions

Serbian resident:  
Invoice with VAT included

Non-resident:  
VAT not included in invoice



# Capacity Transfer

## Rules for Transfer deliveries to DAMAS System

- After fulfillment of the payment obligations towards JP EMS, the Capacity Right Holder, who got the capacity right in the Allocation Procedure may assign the capacity right to another Participant or several other Participants
- Transfer of the capacity right can be applied only for the capacity right allocated in Yearly or Monthly Auctions.
- The Capacity Right Holder may transfer capacity in full (the full amount of the Allocated Capacity for all hours in that day) or partially (a part of the Allocated Capacity for all hours in that day), which means same value for every hour in day (band).
- The Capacity Right Holder submits itself request for capacity transfer in DAMAS System.
- The Capacity can be transferred on a daily bases (one or more whole calendar days starting from 00:00h of the first day till 24:00 h CET of the last day of the month).

## Capacity Transfer

### Rules for Transfer deliveries to DAMAS System

- Capacity Transfer can be performed every day starting from 12:00 CET six (6) days before the first day of the corresponding month but not later than 12:00 CET three (3) days before the first day of usage of the Allocated Capacity. After this deadline transfer of Allocated Capacity is not possible.
- Participant to whom the capacity right is assigned is obliged to confirm capacity transfer in DAMAS system within 4 hours after submission of request for capacity transfer. Otherwise, capacity transfer is automatically canceled.
- Participant to whom the capacity right is assigned is required, before confirmation of capacity transfer, to check with JP EMS if the Capacity Right Holder has settled financial obligations for that capacity. In the event that the Capacity Right Holder has not paid obtained capacity JP EMS will cancel such transfer. This rule also applies to all transfers arising from the primary capacity transfer.

# Transfer Scenario

- Auction Participant 1 (34X-APARTICIP-01) is transferring 5 MW allocated on auction on border Albania-Serbia (Auction ID: ALRS-M-01122013-27119) to Auction Participant 2 (34X-APARTICIP-02)
- From 10.12.2013. to 15.12.2013.

# Transfers in DAMAS System – for Transferor

EMC Welcome on the EMS Web Site  
 JABNO PREDSTAVNI  
 ELEKTROPOMPEKA CFSIAJE → THE COMMUNICATION KIOSK

**Damas**

Logged user: Auction Participant 1 (34X-APARTICIP-01) 3.12.2013, 13:34

- ▶ AUCTION
- ▶ LONG-TERM AUCTION
- ▶ **TRANSFERS**
- ▶ SCHEDULING
- ▶ CONTINUOUS INTRADAY
- ▶ INVOICING
- ▶ MESSAGES
- ▶ SYSTEM TOOLS

Capacity Transfer Overview

**Allocated Capacity Transfer**

Capacity Transfers Confirmation

Ivan Milenkovic(EMS Managers), 3.12.2013 12:55:10  
 Long-term auction results converted to hourly values for monthly auction RSAL-M-10122013-27118 for border direction SERBIA-ALBANIA (50% RS).

Radomir Živic(EMS Managers), 3.12.2013 12:53:47  
 Long-term auction results converted to hourly values for monthly auction ALRS-M-10122013-27119 for border direction SERBIA-ALBANIA (50% RS).

Ivan Milenkovic(EMS Managers), 3.12.2013 12:53:36  
 Long-term auction results converted to hourly values for monthly auction RSAL-M-10122013-27118 for border direction SERBIA-ALBANIA (50% RS).

Radomir Živic(EMS Managers), 3.12.2013 12:53:34  
 Long-term auction results for monthly auction ALRS-M-10122013-27119 for border direction ALBANIA-SERBIA (50% RS) published.

Ivan Milenkovic(EMS Managers), 3.12.2013 12:42:23  
 It is past gate closure for submitting long-term bids for monthly auction RSAL-M-10122013-27118 for border direction SERBIA-ALBANIA (50% RS).

Radomir Živic(EMS Managers), 3.12.2013 12:42:15  
 It is past gate closure for submitting long-term bids for monthly auction ALRS-M-10122013-27119 for border direction ALBANIA-SERBIA (50% RS).

Administrator Admin(EMS Managers), 3.12.2013 12:00:04  
 It is past gate closure for capacity transfers for day 6.12.2013 and border direction HUNGARY-SERBIA (100%).

Administrator Admin(EMS Managers), 3.12.2013 12:00:04  
 It is past gate closure for capacity transfers for day 6.12.2013 and border direction BOSHERZ-SERBIA (50% RS).

Administrator Admin(EMS Managers), 3.12.2013 12:00:04  
 It is past gate closure for capacity transfers for day 6.12.2013 and border direction SERBIA-MACEDONIA (50% RS).

Administrator Admin(EMS Managers), 3.12.2013 12:00:04  
 It is past gate closure for capacity transfers for day 6.12.2013 and border direction MONTENEG-SERBIA (50% RS).

1 2 3 4 5 6 7 8 9 10

EMC Allocated Capacity Transfer  
 JABNO PREDSTAVNI  
 ELEKTROPOMPEKA CFSIAJE

**Damas**

Logged user: Auction Participant 1 (34X-APARTICIP-01) 3.12.2013, 13:34

Transferee: Auction Participant 2

Date From: 10.12.2013

Date To: 15.12.2013

Border Direction: ALBANIA-SERBIA (50% RS)

Auction Type: Monthly

Days: All days

Auction ID: ALRS-M-10122013-27119

**List Update**

**Show data**

Transferor: Auction Participant 1  
 Transferee: Auction Participant 2  
 Date From: 10.12.2013  
 Date To: 15.12.2013  
 Border Direction: ALBANIA-SERBIA (50% RS)  
 Auction Type: Monthly  
 Auction Product: ALRS1\_Monthly\_Base  
 Days: All days  
 Auction ID: ALRS-M-10122013-27119

**Save**

Hour	Available Capacity [MW]	Capacity [MW]	Hour
1.	5	0	1.
2.	5	0	2.
3.	5	0	3.
4.	5	0	4.
5.	5	0	5.
6.	5	0	6.
7.	5	0	7.
8.	5	0	8.
9.	5	0	9.

Done



# Transfers in DAMAS System – for Transferor

AUCTION ID ALRS-M-10122013-27119

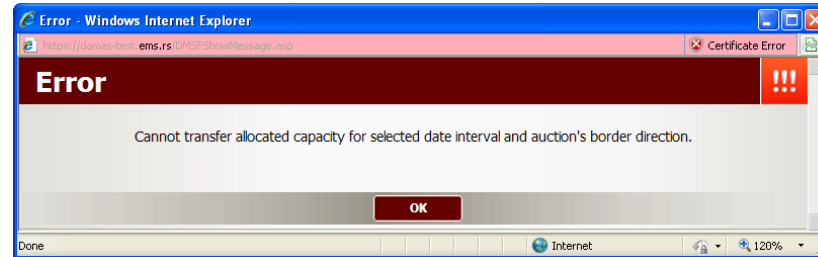
Save

Hour	Available Capacity [MW]	Capacity [MW]	Hour
1.	5	5	1.
2.	5	5	2.
3.	5	5	3.
4.	5	5	4.
5.	5	5	5.
6.	5	5	6.
7.	5	5	7.
8.	5	5	8.
9.	5	5	9.
10.	5	5	10.
11.	5	5	11.
12.	5	5	12.
13.	5	5	13.
14.	5	5	14.
15.	5	5	15.
16.	5	5	16.
17.	5	5	17.
18.	5	5	18.
19.	5	5	19.
20.	5	5	20.
21.	5	5	21.
22.	5	5	22.
23.	5	5	23.
24.	5	5	24.
Total	120	120	

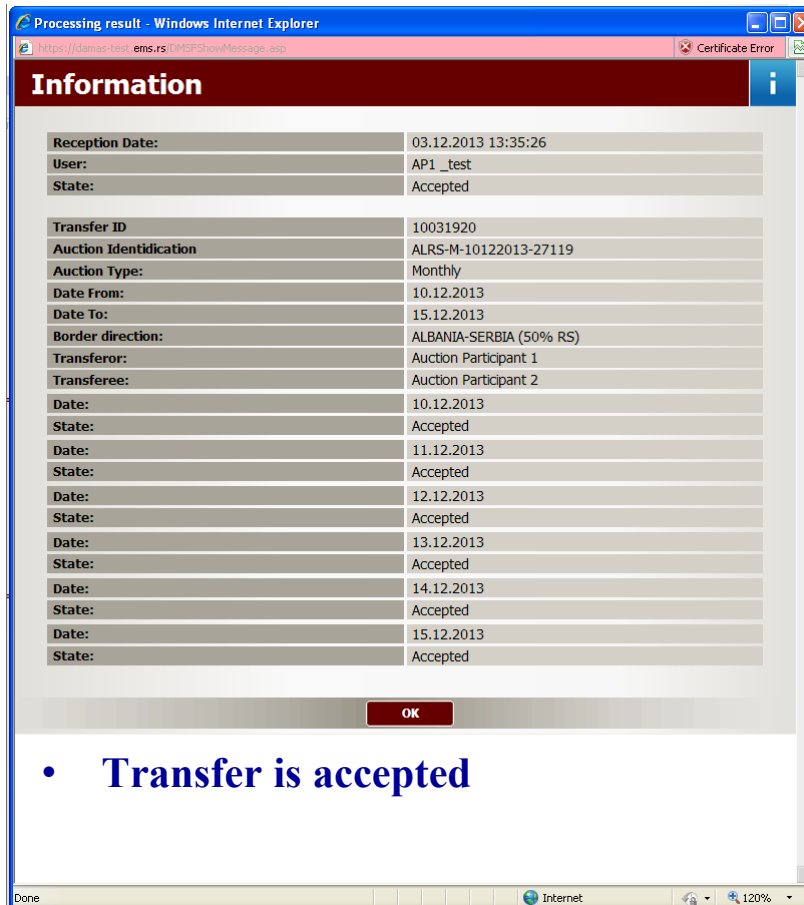
Minimum available capacity for each hour within the period selected.

Save

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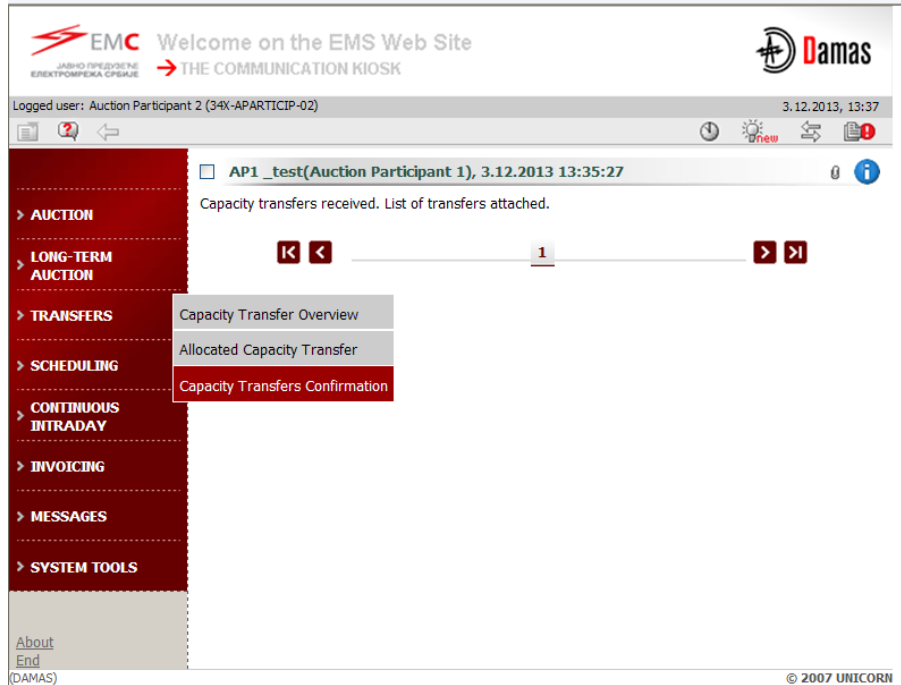


- Error message, transfer cannot be performed



- Transfer is accepted

# Transfers in DAMAS System – for Transferee



Welcome on the EMS Web Site  
→ THE COMMUNICATION KIOSK

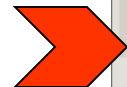
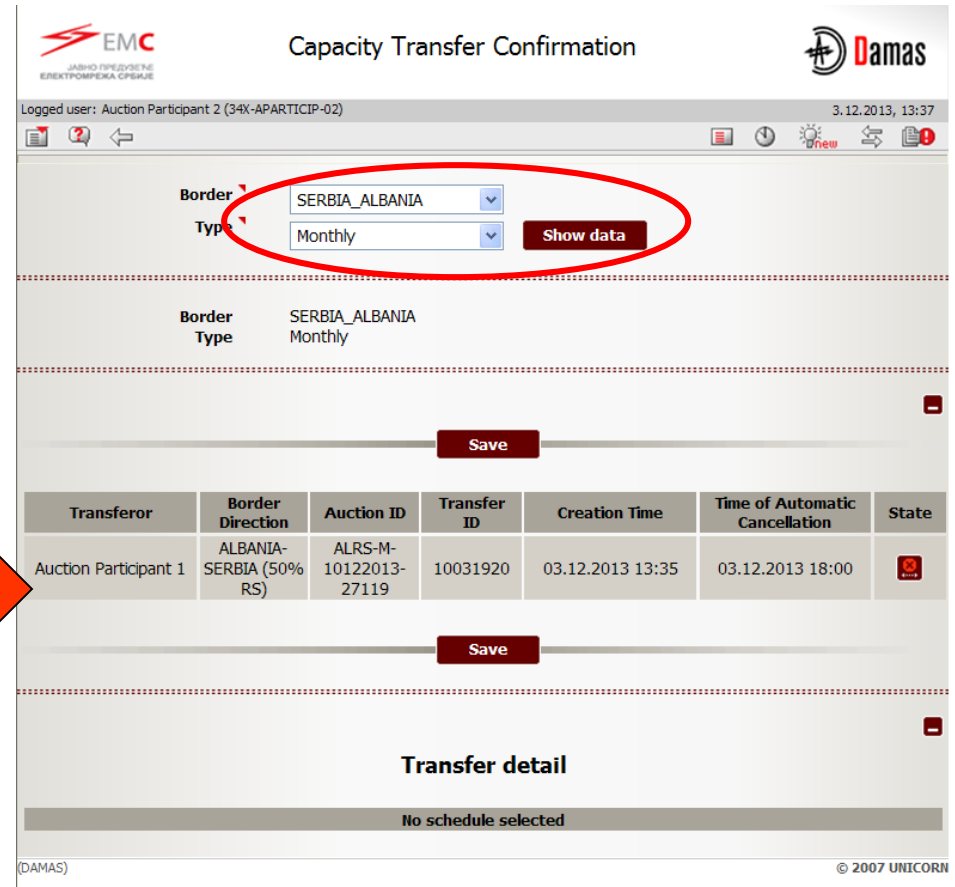
Logged user: Auction Participant 2 (34X-APARTICIP-02) 3.12.2013, 13:37

AP1\_test(Auction Participant 1), 3.12.2013 13:35:27

Capacity transfers received. List of transfers attached.

- Capacity Transfer Overview
- Allocated Capacity Transfer
- Capacity Transfers Confirmation**

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Capacity Transfer Confirmation

Logged user: Auction Participant 2 (34X-APARTICIP-02) 3.12.2013, 13:37

Border: SERBIA\_ALBANIA  
Type: Monthly **Show data**

Border: SERBIA\_ALBANIA  
Type: Monthly

**Save**

Transferor	Border Direction	Auction ID	Transfer ID	Creation Time	Time of Automatic Cancellation	State
Auction Participant 1	ALBANIA-SERBIA (50% RS)	ALRS-M-10122013-27119	10031920	03.12.2013 13:35	03.12.2013 18:00	

**Save**


**Transfer detail**

No schedule selected

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# Transfers in DAMAS System – for Transferee

**Save**

Transferor	Border Direction	Auction ID	Transfer ID	Creation Time	Time of Automatic Cancellation	State
Auction Participant 1	ALBANIA-SERBIA (50% RS)	ALRS-M-10122013-27119	10031920	03.12.2013 13:35	03.12.2013 18:00	

**Save**

---

### Transfer detail

**Date From:** 10.12.2013  
**Date To:** 15.12.2013  
**Beneficiary:** Auction Participant 2  
**Transferor:** Auction Participant 1  
**Border Direction:** ALBANIA-SERBIA (50% RS)  
**Auction ID:** ALRS-M-10122013-27119  
**Transfer ID:** 10031920

Hour	Capacity [MW]	Hour
1.	5	1.
2.	5	2.
3.	5	3.
4.	5	4.
5.	5	5.
6.	5	6.
7.	5	7.
8.	5	8.
9.	5	9.
10.	5	10.
11.	5	11.
12.	5	12.
13.	5	13.
14.	5	14.
15.	5	15.
16.	5	16.
17.	5	17.
18.	5	18.
19.	5	19.
20.	5	20.
21.	5	21.

Done

Processing result - Windows Internet Explorer  
 https://damas-test.ems.rs/DMSGFShowMessage.asp

## Information

<b>Reception Date:</b>	03.12.2013 13:38:30
<b>User:</b>	Auction Participant 2
<b>State:</b>	Accepted
<b>Transfer ID</b>	10031920
<b>Auction Identification</b>	ALRS-M-10122013-27119
<b>Auction Type:</b>	Monthly
<b>Date From:</b>	10.12.2013
<b>Date To:</b>	15.12.2013
<b>Border direction:</b>	ALBANIA-SERBIA (50% RS)
<b>Transferor:</b>	Auction Participant 1
<b>Transferee:</b>	Auction Participant 2
<b>State:</b>	Confirmed

**OK**

Done Internet 120%

# Transfer Overview



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ЕЛЕКТРОМРЕЖА СРБИЈЕ

Welcome on the EMS Web Site  
→ THE COMMUNICATION KIOSK

Logged user: Auction Participant 1 (34X-APARTICIP-01)
3.12.2013, 13:39

- > AUCTION
- > LONG-TERM AUCTION
- > TRANSFERS
- > SCHEDULING
- > CONTINUOUS INTRADAY
- > INVOICING
- > MESSAGES
- > SYSTEM TOOLS

- Auction Participant 2(Auction Participant 2), 3.12.2013 13:38:31 i  
Capacity transfer confirmation (cancellation) received. List of transfers attached.
- AP1\_test(Auction Participant 1), 3.12.2013 13:35:27 i  
Capacity transfers received. List of transfers attached.
- Ivan Milenkovic(EMS Managers), 3.12.2013 12:55:10 i  
Capacity Transfer Overview  
Allocated Capacity Transfer  
Long-term auction results converted to hourly values for monthly auction RSAL-M-10122013-27118 for border direction ALBANIA-SERBIA (50% RS).
- Ivan Milenkovic(EMS Managers), 3.12.2013 12:53:47 i  
Capacity Transfers Confirmation  
Long-term auction results converted to hourly values for monthly auction ALRS-M-10122013-27119 for border direction ALBANIA-SERBIA (50% RS).
- Ivan Milenkovic(EMS Managers), 3.12.2013 12:53:36 i  
Long-term auction results for monthly auction RSAL-M-10122013-27118 for border direction SERBIA-ALBANIA (50% RS) published.
- Radomir Zivic(EMS Managers), 3.12.2013 12:53:34 i  
Long-term auction results for monthly auction ALRS-M-10122013-27119 for border direction ALBANIA-SERBIA (50% RS) published.
- Ivan Milenkovic(EMS Managers), 3.12.2013 12:42:23 i  
It is past gate closure for submitting long-term bids for monthly auction RSAL-M-10122013-27118 for border direction SERBIA-ALBANIA (50% RS).
- Radomir Zivic(EMS Managers), 3.12.2013 12:42:15 i  
It is past gate closure for submitting long-term bids for monthly auction ALRS-M-10122013-27119 for border direction ALBANIA-SERBIA (50% RS).
- Administrator Admin(EMS Managers), 3.12.2013 12:00:04 i  
It is past gate closure for capacity transfers for day 6.12.2013 and border direction HUNGARY-SERBIA (100%).
- Administrator Admin(EMS Managers), 3.12.2013 12:00:04 i  
It is past gate closure for capacity transfers for day 6.12.2013 and border direction BOSHERZ-SERBIA (50% RS).

1 2 3 4 5 6 7 8 9 10

(DAMAS)
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Capacity Transfer Overview

Logged user: Auction Participant 1 (34X-APARTICIP-01)
3.12.2013, 13:39

Date From: 10.12.2013

Date To: 15.12.2013

Border: SERBIA\_ALBANIA

Type: Monthly

State: All

**Show data**

---

Date From: 10.12.2013

Date To: 15.12.2013

Border: SERBIA\_ALBANIA

Type: Monthly

State: All

Transferor	Transferee	Border Direction	Auction ID	Transfer ID	Creation Time	Confirmation / Cancellation Time	State
Auction Participant 1	Auction Participant 2	ALBANIA-SERBIA (50% RS)	ALRS-M-10122013-27119	10031920	03.12.2013 13:35	03.12.2013 13:38	Confirmed

### Transfer Detail

Transfer ID: 10031920

Date From: 10.12.2013

Date To: 15.12.2013

Transferor: Auction Participant 1

Transferee: Auction Participant 2

Auction ID: ALRS-M-10122013-27119

Border Direction: ALBANIA-SERBIA (50% RS)

Auction Product: Monthly

Hour	Capacity [MW]	Hour
1.	5	1.
2.	5	2.
3.	5	3.
4.	5	4.

Done

# DAMAS System – Long-term Auction – Alloacted Capacity Auction Participant Overview

- Capacities allocated in auctions, included transfers and curtailed capacity

Capacity Detail							
		<b>Date</b>	1.1.2008				
		<b>Auction Participant</b>	A Trading s.r.o (10X-ATRADE-----1)				
		<b>Border Direction</b>	SERBIA-HUNGARY (50% RS)				
		<b>Type</b>	Monthly				
Capacity Detail		Hour	Total Allocated [MW]	Monthly (10000732)	Monthly (10000812)	Monthly (10000818)	Monthly (10000871)
		Capacity Source		Auction	Transfer	Transfer	Curtailment
		Auction Product		Monthly Base	Monthly Base	Monthly Base	Monthly Base
		Auction ID		RSHU-M-01012008-06552	RSHU-M-01012008-06552	RSHU-M-01012008-06552	RSHU-M-01012008-06552
	1.		126	300	-20	-30	-124
	2.		126	300	-20	-30	-124
	3.		126	300	-20	-30	-124
	4.		126	300	-20	-30	-124
	22.		126	300	-20	-30	-124
	23.		126	300	-20	-30	-124
	24.		126	300	-20	-30	-124

# DAMAS System - Summary Capacity Rights

- **Evaluation of long-term summary capacity rights for nominations**
  - Used by Serbian BRPs for nomination process
  
- **Interface with EMS Scheduling System for Long-term – D-2 12:30 (sum of all long-term auction)**

EMC  
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Summary Capacity Rights

Damas

Logged user: Ucesnik (15X-YUGOSLAV---Q) 20.10.2009, 08:21

Counterpart: [Dropdown]

Date: 20.10.2009

Border: SERBIA\_HUNGARY

Type: Day ahead

Show data

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Summary Capacity Rights

Damas

Logged user: Auction Manager (EMS Managers) 18.5.2012, 15:54

Auction Participant: [Dropdown]

Counterpart: [Dropdown]

Date: 15.5.2012

Border: SERBIA\_CROATIA

Type: Long-Term

Show data

Auction Participant: [Blank]

Counterpart: [Blank]

Date: 15.5.2012

Border: SERBIA\_CROATIA

Type: Long-Term

Summary Capacity Rights For Scheduling						
Source Area	SERBIA			CROATIA		
Target Area	CROATIA			SERBIA		
Hour	Allocated (Home TSO) [MW]	Allocated (Foreign TSO) [MW]	Capacity Rights [MW]	Allocated (Home TSO) [MW]	Allocated (Foreign TSO) [MW]	Capacity Rights [MW]
Capacity Agreement Identification	A05_RSHR_34XGENI - BEOGRADH_15052012	A05_RSHR_34XGENI - BEOGRADH_15052012		A05_HRRS_34XGENI - BEOGRADH_15052012	A05_HRRS_34XGENI - BEOGRADH_15052012	
1	60	32	92	37	30	67
2	60	32	92	37	30	67
3	60	32	92	37	30	67
4	60	32	92	37	30	67

## Intraday Capacity Allocation

- JP EMS allocates intraday capacity for 5 borders in both direction (HURS, MKRS, ALRS, HRRS, MERS)
- Allocation method is First Come – First Served
- Intraday ATC = capacity remained after finally nomination for trade day D (sum of long-term and daily capacity)
- On Hungary - Serbia border intraday allocation is divided in 6 sessions (4 hours)
- On all other borders is possible to participate for every hour continuously
- Intraday auction on Romania – Serbia border is organized by Romanian TSO
- Intraday auction on Bosnia and Herzegovina – Serbia border is organized by Bosnia and Herzegovina TSO



**THANKS FOR YOUR  
ATTENTION**