Allocation of forward capacities

Filip Marković
Coordinated Auction Office in South East Europe

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Summary

- Network codes/Market codes
- Forward Capacity Allocation
- Harmonised Allocation Rules
- SEE CAO:
 - Auction process
 - Workflow diagram
 - Reporting/Data exchange

Network codes

- 1. Market codes
 - FCA GL, CACM GL, EB GL
- 2. Connection codes
 - RfG NC, DC NC, HVDC NC
- 3. Operation codes
 - SO GL, ER NC

Market Codes



Forward Capacity Allocation

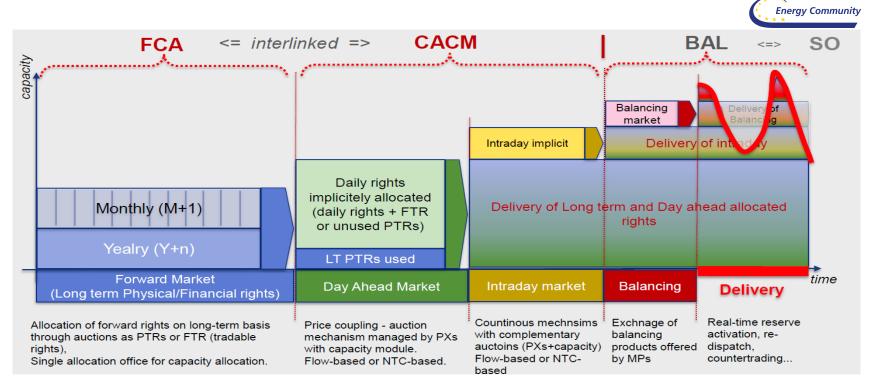
CACM

Capacity
Allocation and
Congestion
Management

EB

Balancing

Market Codes



FCA guideline

- REGULATION (EU) 2016/1719 on establishing a guideline on forward capacity allocation
 - Rules on cross-zonal capacity allocation
 - Forward markets (Yearly, monthly)
 - PTR or FTR (option/obligation)
 - Explicit auctions, marginal price
 - Daily allocation subject of CACM
 - Creation of Harmonised Allocation Rules by the TSOs

FCA in SEE

EU Member States

- FCA binding from Oct 2016
- FCA early implementation EU
 - Jan 2016 with EU HAR
- 'best practice'

Non-EU countries:

- FCA still not binding
- FCA early implementation SEE
 - Jan 2018 with SEE CAO HAR set of rules
- once adopted in Energy Community acquis - binding for Contracting Parties

Harmonised Allocation Rules

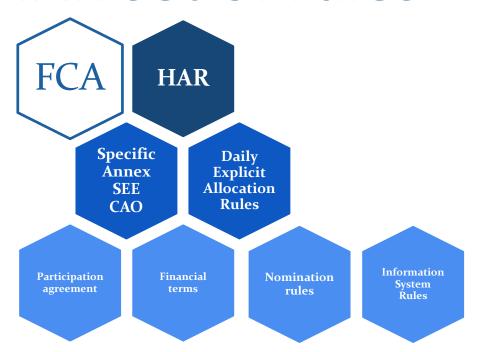
- EU TSOs prepared Harmonised Allocation Rules following the guidelines in FCA
 - ONLY forward markets
 - yearly and monthly auctions
 - Secondary market (transfer, return)
 - UIOSI
 - Compensation regimes (curtailments)

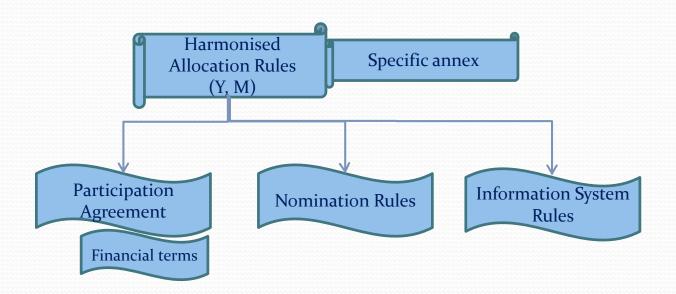
Secondary market

- Transfer and Return
 - optional
- Use-It-Or-Sell-It-Principle
 - Automated process, in case traders do not announce intention to use their long term transmission rights

HAR in SEE CAO

- Early implementation during 2017:
 - Decision of SEE CAO BoD
- Establishment of working group
 - Ad hoc task force SEE HAR
 - SEE CAO and ENTSO-E Regional group SEE
- Preparation of SEE CAO HAR set of rules
- Approval of HAR by SEE NRAs
- Allocation Tool setup DAMAS HAR upgrade
- SEE CAO Allocation Platform

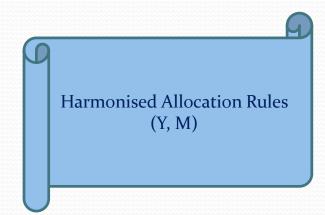


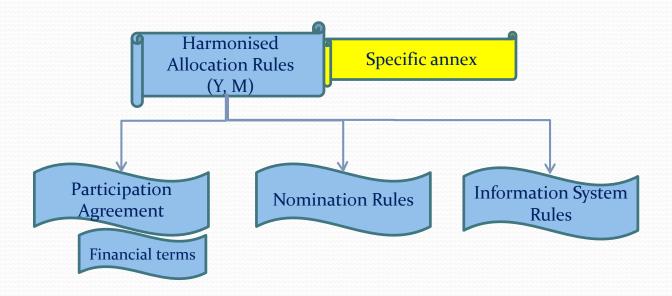


- I. <u>Harmonised allocation rules</u> for long-term transmission rights
- II. <u>Specific Annex</u> for the Bidding Zone borders serviced by SEE CAO
- III. Participation Agreement
- IV. Financial terms
- V. Nomination Rules
- VI. Information System Rules
- VII. Rules for explicit <u>Daily Capacity Allocation</u> on Bidding Zone borders serviced by SEE CAO

I Harmonised Allocation Rules

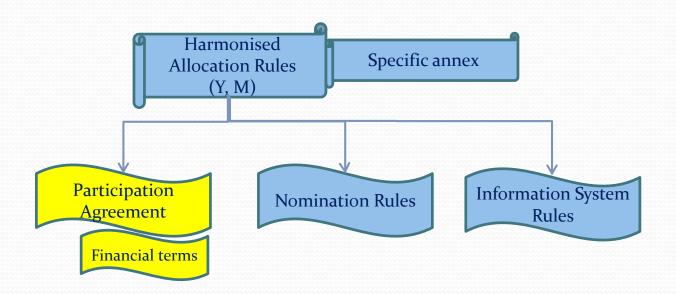
- Long Term (Yearly and Monthly) Auction
- Allocation of Long Term Transmission Rights
- Resale (Y M)
- Transfer
- Curtailment of:
 - Long term transmission rights
 - Nominations
 - UIOSI





II Specific Annex SEE CAO

- Regional specificities
- Derogations from HAR
- Technical, legal and financial exemptions
- Curtailment regimes
- List of Bidding Zone borders

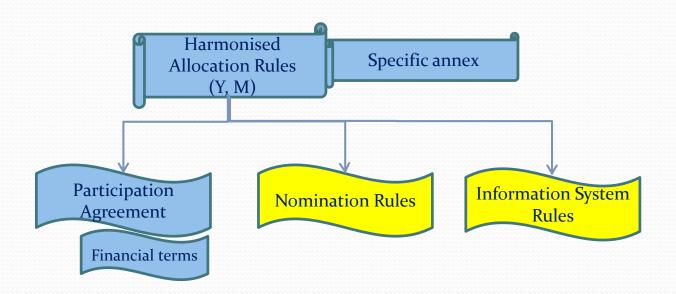


III Participation Agreement

- Contract between SEE CAO and Market Participant
- Market Participant eligibility with at least one TSO in SEE CAO

IV Financial terms

- Bank guarantee template
- Deposit contract template

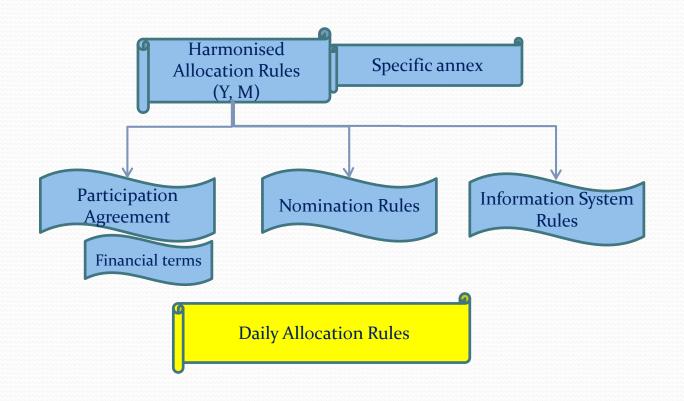


V Nomination Rules

- Type of transmission rights:
 - Physical Transmission Rights on all BZB
 - Financial Transmission Rights to be introduced with market coupling
- LT and D Nomination principle per BZB

VI Information System Rules

DAMAS Auction Tool



VII Daily Capacity Allocation

- Explicit daily auction
- UIOSI
- No transfer
- No curtailment

Daily allocation in SEE CAO



Until CACM implementation:

- Explicit daily auctions
- Performed by SEE CAO

CACM implementation in **SEE**

Upon CACM implementation:

- Implicit daily auctions (PX/MC)
- 'Shadow' explicit D auctions in SEE CAO

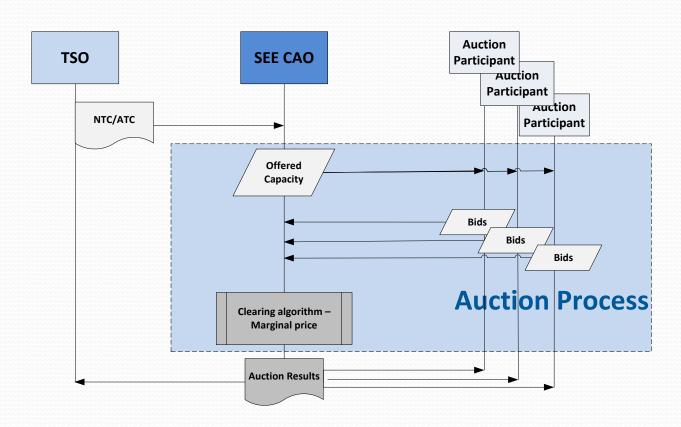


SEE CAO operational processes

- Auction process
 - Clearing algorithm

- Workflow diagram
 - Yearly, monthly and daily timeframe
 - Callculation of offered capacity

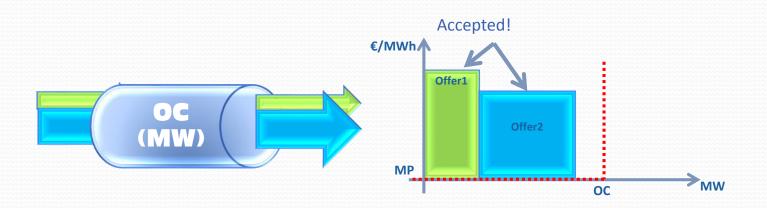
Auction process



Auction process

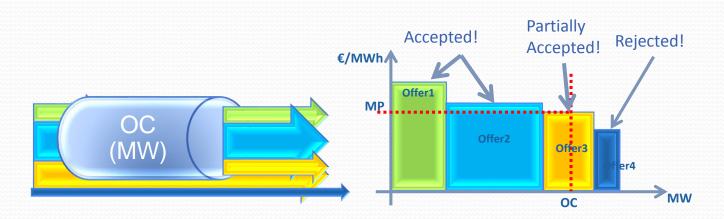
- Offered capacity (OC): MW
- > Bids:
 - > Requested capacity (RC): MW
 - ➤ Bid price: €/MWh

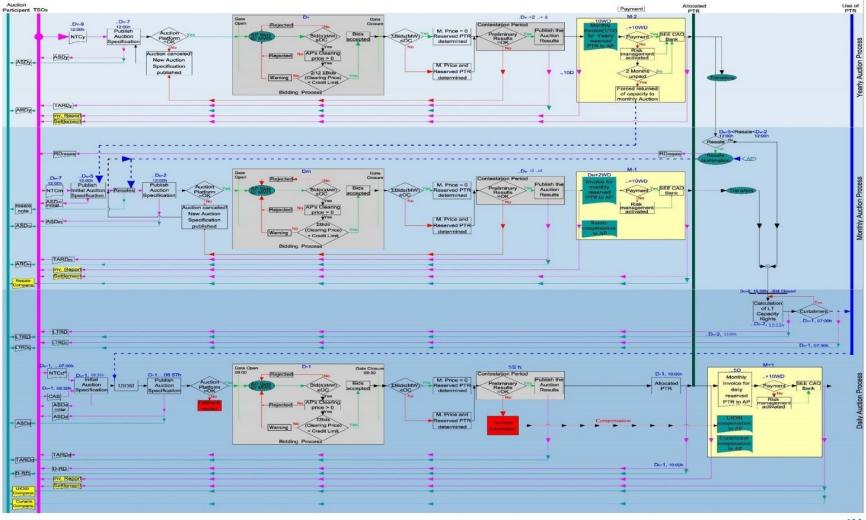
- ✓ RC < OC
- ✓ Marginal Price = 0
- √ No congestion
- ✓ No incomes for TSOs



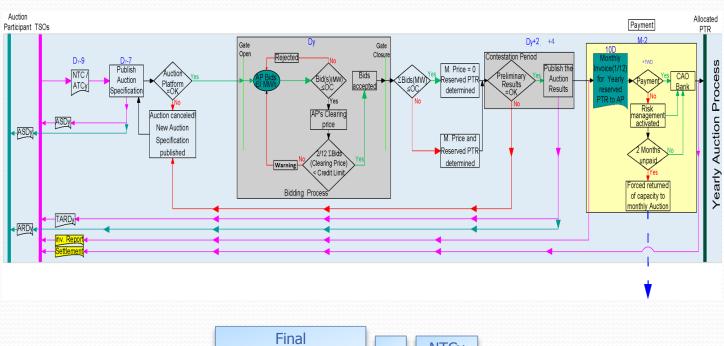
Auction process

- Offered capacity (OC): MW
- > Bids:
 - Requested capacity (RC): MW
 - ➤ Bid price: €/MWh
- ➤ Congestion → Marginal Price



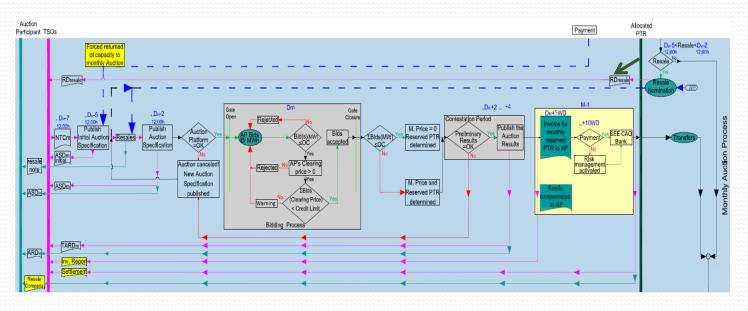


Workflow diagram (Yearly auction)



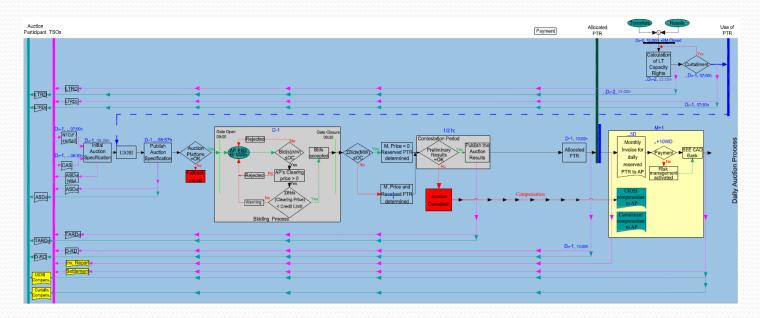


Workflow diagram (Monthly auction)



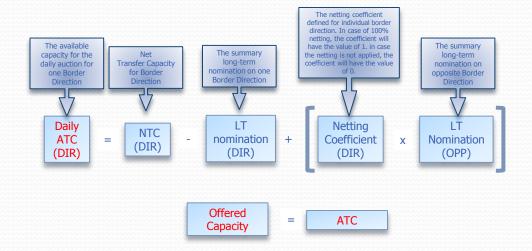


Workflow diagram (Daily auction)



Netting procedure for calculation of daily ATC

Workflow diagram (Daily auction)

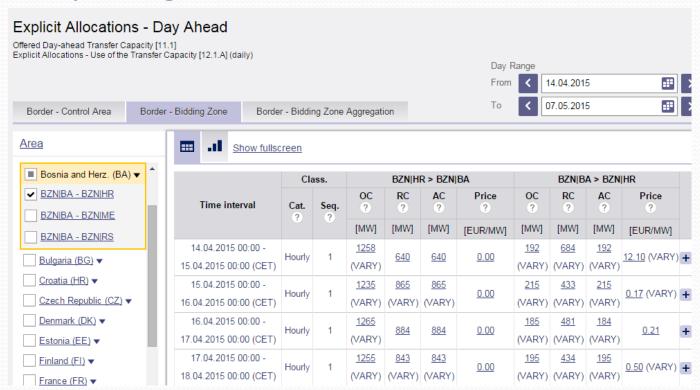


Netting procedure for calculation of daily ATC

Reporting – EMFIP

- REGULATION (EU) No 543/2013 on submission and publication of data in electricity markets
- ENTSO-E Transparency platform
- SEE CAO submits data on behalf of TSOs

Reporting – EMFIP



Reporting-EMFIP

Transmission Explicit Allocation

- Day Ahead
 - Offered,
 - Requested
 - Allocated
 - Auction Price
- **Long/Medium Term**
 - Offered,
 - **Requested**
 - Allocated
 - Auction Price
- Allocation Revenue
- > AAC Already Allocated Capacity
- **Auction Configuration**

Reporting – REMIT

- Regulation (EU) No 1227/2011 on wholesale energy market integrity and transparency
- Reporting to ACER's ARIS system
- SEE CAO submits data as <u>Registered Reporting Mechanism</u>
 - on behalf of EU TSOs
 - on the borders with EU Member States
 - 4 out of 6 SEE CAO borders

Reporting – REMIT

Electricity Transportation contracts

on behalf of TSOs:

- Long Term Total Allocation
- Long Term Bids
- Daily Total Allocation
- Daily Bids

on behalf of Market Participants:

- > Transfer Rights time series
- Resale Rights time series

Data exchange

SEE CAO \leftarrow TSOs

SEE CAO ← Auction participants

ECAN - ENTSO-E Capacity Allocation and Nomination Standard (.xml)

Other formats (.pdf, .xls)

Thank you for your attention!

Filip Marković Coordinated Auction Office in South East Europe Moskovska 39, Podgorica, Montenegro +382 20 240 000

> filip.markovic@seecao.com www.seecao.com