

Swedish settlement of balancing capacity

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Practicalities

- Questions can be written in the chat
- The webinar will be recorded
- Material together with the recording will be put up on eSett's project page afterwards
 - Projects ➡ Swedish settlement of balancing capacity



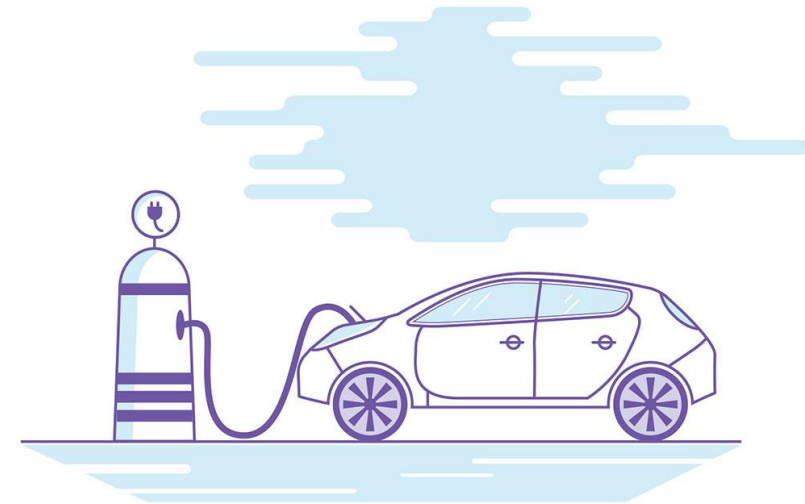
Agenda

- Overview
- Timeline
- Affected areas
 - Settlement
 - Invoicing
 - Online Service
- Verification of values
- Questions and answers



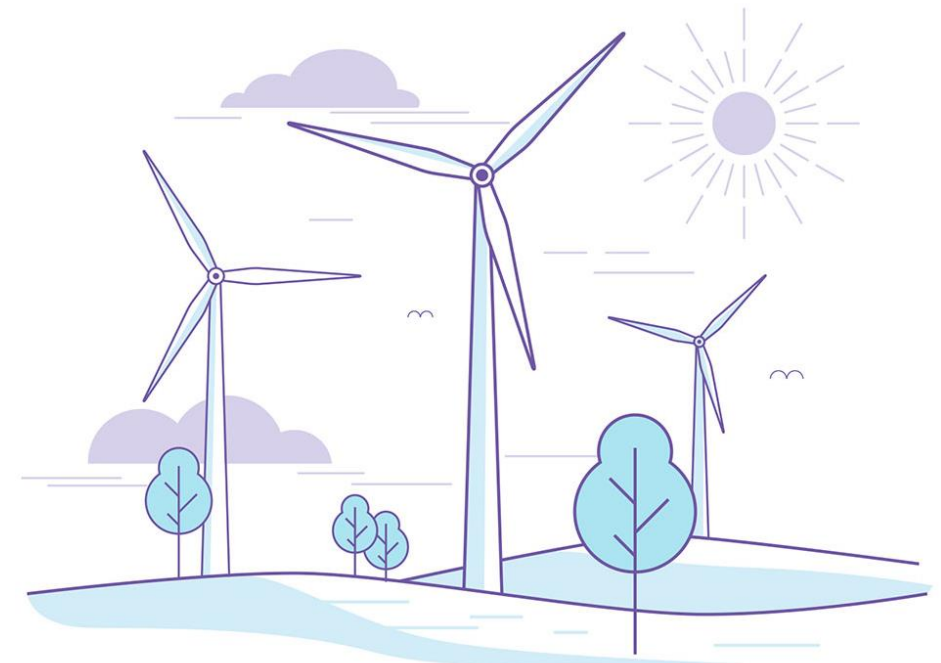
Overview

- Svenska kraftnät will transfer the settlement of balancing capacity procured in Sweden to eSett
- Aim is to simplify the settlement of balancing services
 - All information will be gathered in one place in eSett's system
- Invoicing of balancing capacity will be more straightforward
 - eSett is the one sending out the balancing capacity invoices to the BRPs instead of BRPs sending the invoices to Svenska kraftnät
 - The invoicing of the balancing capacity reserves will be part of the weekly imbalance settlement invoice



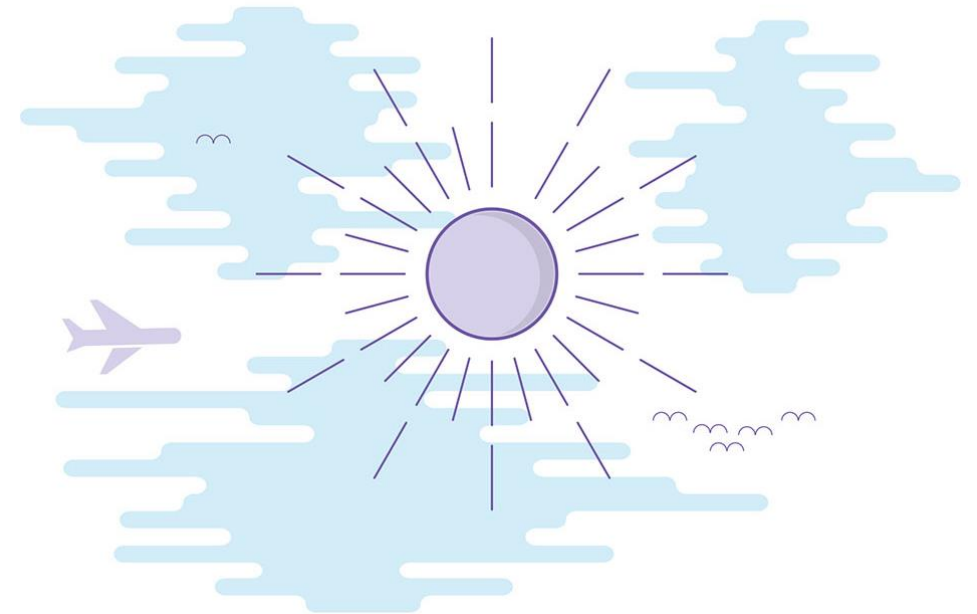
Timeline

- From 1.10.2023, the settlement of balancing capacity is moved from Svenska kraftnät to eSett
 - aFRR, FCR-N & FCR-D
- eSett will receive values from Svenska kraftnät for delivery day on delivery day + 1
 - For 1.10. the values are received on 2.10.2023 after midnight
- New sendings after every finalized procurement
 - By 05:00 CET for FCR early
 - By 08:45 CET for aFRR
 - By 19:00 CET for FCR late
- First invoicing of balancing capacity takes place on Monday 16.10.2023 for aFRR, FCR-N & FCR-D
 - Invoicing of week 39: 25.9.-1.10.2023
 - Only values for 1.10. are part of the invoice for week 39



Timeline

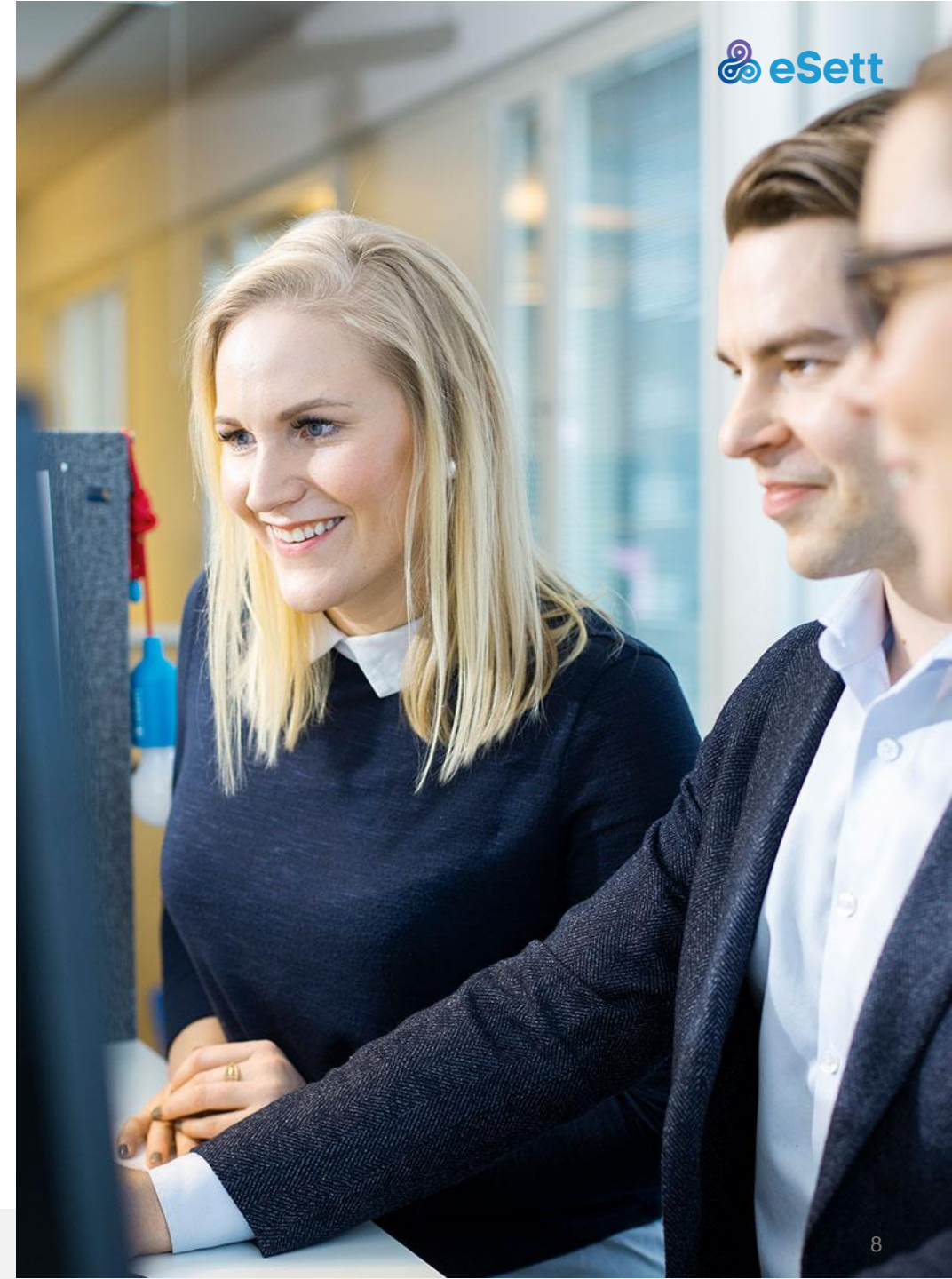
- mFRR go-live on Tuesday 17.10.2023 for the delivery day 18.10.2023
 - Values sent to eSett after finalized procurement by 08:45 CET
- First invoicing of mFRR happens on 6.11.2023
 - Invoicing of week 42: 16.10.-22.10.2023



Affected areas

Settlement

- The settlement of balancing capacity is a separate settlement in eSett
 - No impact on balance responsible party's current imbalance settlement
- No impact on the BRPs collateral calculation or the fees
- Svenska kraftnät will send the procured volumes (MW) to eSett who calculates the balancing capacity settlement results and invoices them
- The settlement period for balancing capacity will be 60 minutes, also following the introduction of 15 minutes ISP



Invoicing

- Balancing capacity products will be included on the imbalance settlement invoice as own separate rows under “Purchases by eSett Oy”
- Products are separated into symmetrical, up and down products
- Correction products will be used for volumes that BRP fails to deliver and for D-0 trade of FCR
- BRPs that provide balancing services in Sweden stops sending invoices regarding balancing capacity to Svenska kraftnät
 - September invoiced by BRP
 - October and onwards invoiced by eSett

BRP Bought FCR-N, late, Capacity Reserves

BRP Bought FCR-N, early, Capacity Reserves

BRP Bought FCR-N, late, Correction, Capacity Reserve

BRP Bought FCR-D Up, late, Capacity Reserves

BRP Bought FCR-D Down, late, Capacity Reserves

BRP Bought FCR-D Up, early, Capacity Reserves

BRP Bought FCR-D Down, early, Capacity Reserves

BRP Bought FCR-D Up, late, Correction, Capacity Reserves

BRP Bought FCR-D Down, late, Correction, Capacity Reserves

BRP Bought FRR-A Up, Capacity Reserves

BRP Bought FRR-A Down, Capacity Reserves

BRP Bought FRR-A Up, Correction, Capacity Reserves

BRP Bought FRR-A Down, Correction, Capacity Reserves

BRP Bought FRR-M, Balancing Power Up, Capacity Reserves

BRP Bought FRR-M, Balancing Power Down, Capacity Reserves

BRP Bought FRR-M Up, Correction, Capacity Reserves

BRP Bought FRR-M Down, Correction, Capacity Reserves

Online Service

- Hourly balancing capacity volumes and amounts will be visible under BSP view
 - Input Data ➡ Capacity reserves
 - Overview of the products with drill-down to time series level
 - Aggregated data per product
 - Totals
- New data packages under BSP view
 - Reports ➡ Data Packages Management
 - Primary Frequency Containment Reserves (FCR) – contracted reserves
 - FCR-N & FCR-D
 - Secondary Frequency Restoration Reserves (FRR) – contracted reserves
 - aFRR
 - Tertiary Replacement Reserves (RR) – contracted reserves
 - mFRR



Verification of values

Verification of values

- After Svenska kraftnät starts reporting the balancing capacity values to eSett, please verify them via Online Service
 - Reporting for 1.10.2023 closes on Saturday 14.10.2023
➡ correct values in place at latest Friday 13.10.2023
- Contact eSett immediately if you find any errors or are unsure if the values are correct
 - settlement@esett.com
 - eSett will contact Svenska kraftnät and check the values with them



Questions?

Q&A, part 1/2

Q: Will the invoice be sent to the BSP or the BRP?

A: The invoice with the balancing capacities will be sent to the BRP. The balancing capacity products will be visible on the BRP's weekly imbalance settlement invoice.

Q: Will the capacity corrections be listed under purchases on the invoice?

A: No, correction products are listed under "Sales by eSett Oy". All other balancing capacity products will be under "Purchases by eSett Oy".

Q: All invoicing goes through the BRP?

A: Yes

Q: How to correct values if you find errors you have invoiced?

A: If an error is found for a period that eSett has already invoiced, we ask Svenska Kraftnät to send eSett the correct values after which we recalculate the capacity settlement and do a correction invoicing for the affected BRPs.

Q: Are all BSPs also BRPs?

A: Yes, currently in Sweden all BSPs have also the BRP role.

Q&A, part 2/2

Q: Under data packages: Secondary Frequency Restoration Reserves (FRR) – contracted reserves. What are contracted reserves compared to the ordinary.

A: The data packages that have the “– contracted reserve” in the name is the ones that contains data for balancing capacities. Data packages without the “– contracted reserve” in the name contains data for activated reserves.

Q: Will the format of the bids to eSett differ from the format for bids to SVK? (FCR-N and D)

A: There will be no change in the reporting of bids towards Svenska Kraftnät and how Svenska Kraftnät reports the accepted capacities to the BRPs.

- BRPs will still report to Svenska Kraftnät the accepted FCR bids via DELFOR-messages and the accepted aFRR and mFRR bids via ECP using the CIM-format. Svenska Kraftnät will report the accepted capacities to BRPs with UTILTS S08 (EDIEL-document) regarding FCR and with ReserveAllocationResult_MarketDocument 6.0 (CIM-document) regarding aFRR and mFRR.
- BRPs can in Online Service subscribe to data packages to obtain balancing reserve data also from eSett. The values that eSett's data packages contains will be sent as xml-files and they follow the same format as activated reserves i.e. *NEG ERRP Reserve Allocation Result Document*.

Q: Will all capacity structures come as MECs on eSett Online Service?

A: No, capacity structures don't get an own MEC id. The capacity products will be listed in Online Service and from the product it is possible to drill-down to the time series level to see the hourly values. The structure of the capacity reserves will follow the same logic as activated reserve structures.



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