

Merged Production in Sweden

Webinar 29.11.2023

We will start at 12:30 CET

Welcome!

Presenters:
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Agenda

1. Where to find more info
2. Introduction
3. Technical Requirements
4. Testing
5. Questions and Answers



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Merged Production in Sweden

- Balancing Service Provider Model
- 15-minute Settlement
- Swedish settlement of balancing capacity
- Swedish profiled consumption and reconciliation
- Merged Production in Sweden

Merged Production will be taken into use in Sweden in April 2024. The planned go-live date for all market participants in Sweden is on 1.4.2024.

This type of aggregated production offers Swedish distribution system operators a different way to model and report production alongside with Production Units. It will be taken into use for all units with capacity under 1 MW and will replace some of the existing Production Units in eSett's Online Service.

Merged production allows to reduce the number of Production Units in the system and provides therefore an easier way to handle production as it requires less structural changes from the distribution system operators.

Link to project page:
<https://www.esett.com/merged-production-in-sweden/>

Merged Production Information package

An Information package has been prepared to help the market to identify the change.

 [Merged Production Information package](#)

MEPI and Merged Production Data Package Examples

MEPI and Merged Production data package examples are provided below. Inside the files, you will find comments on all the key points that should be considered by the parties involved.

 [MEPI and Merged Production Data Package Examples](#)

Information Package: <https://www.esett.com/app/uploads/2023/04/Merged-Production-in-Sweden.pdf>

Message examples:

<https://www.esett.com/app/uploads/2023/10/Merged-Production-example-files.zip>

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Introduction

- Merged Production will be implemented in Sweden from 1st of April 2024
- Merged Production is a different way to model production alongside Production Units (PUs)
 - Merged Production is not linked to Production Units
- This will impact all production with capacity under 1 MW
- Sweden will take production type “Minor production” into use at the same from 1st of April 2024
 - **Minor production:** all production with capacity under 1 MW
 - **Normal production:** all production with capacity over 1 MW
- All Merged Production will be structured as Minor production in the settlement system

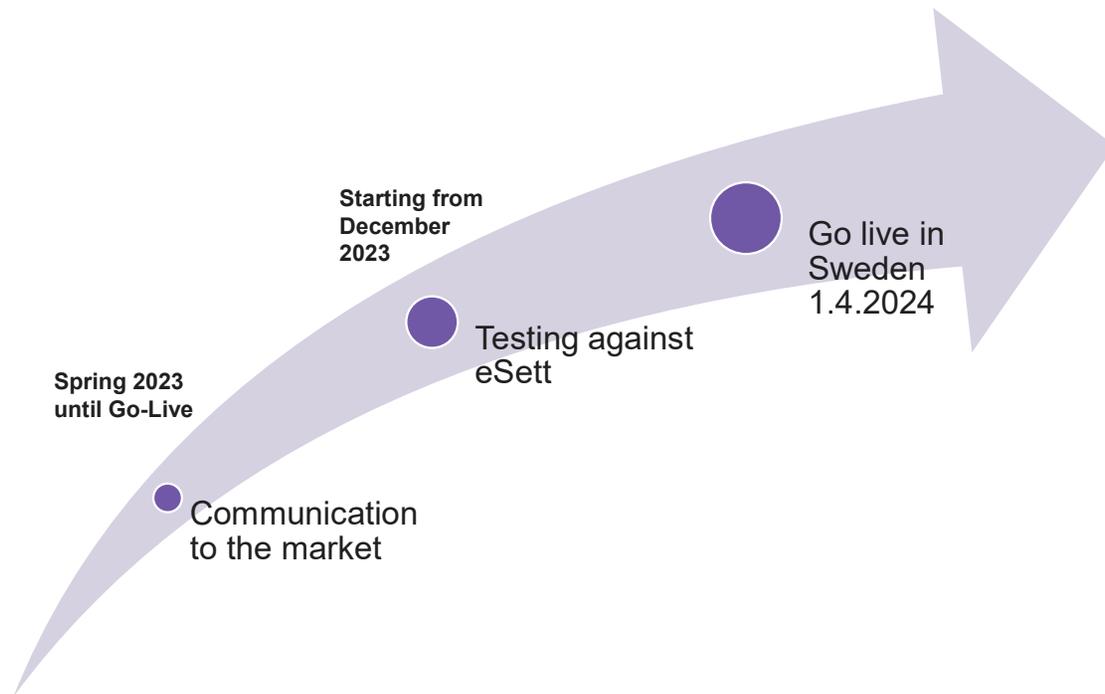


Benefits of Merged Production

- Reduce the number of Production Units in the system
 - Is used to aggregate all Minor production of a retailer within the same MGA
- Provide an easier way to handle production for the DSOs in the system
- Less manual work with structure handling
 - Time series will automatically be created when reporting values
 - Time series will be terminated automatically if no values are reported



Schedule



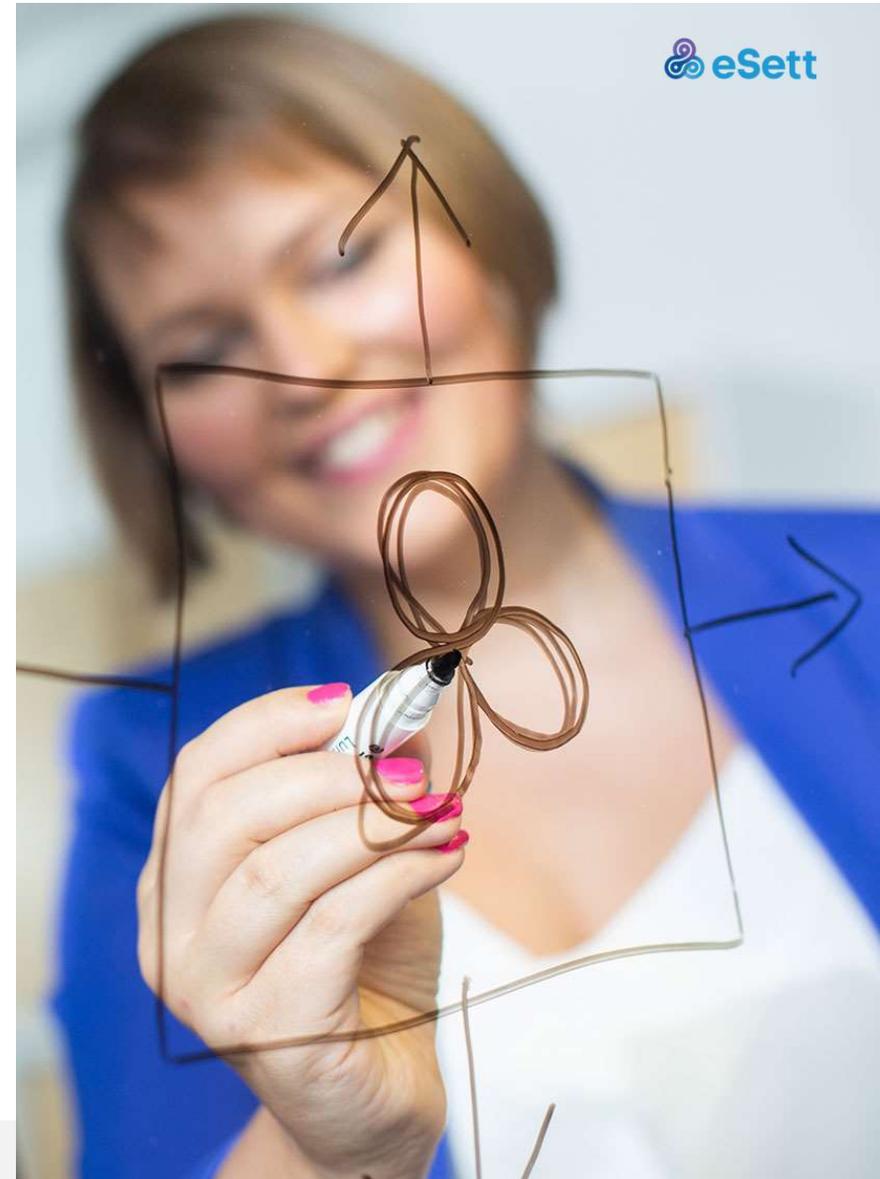
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Technical Requirements

- A valid Retailer Balance Responsibility relation is the precondition for Merged Production
- Will be used to aggregate Minor production
- No link between Merged Production and Regulation Object
 - Regulation Objects can still be created and used for balancing
- New dataflows for Merged Production for both DSOs and BRPs



Structures

- Merged Production structure is created automatically when the DSO reports Merged Production values to eSett
- Merged Production structures attributes cannot be edited
- Changes will lead to a new time series
- Merged Production is terminated automatically if the DSO has not reported any data for 13 days in the past and 7 days into the future
 - Example: a Merged Production series that has no reported data from the 1st day will be terminated on 14th



Example of Merged Production in Online Service

- Co-exists with current Production MECs in all views with similar displays and aggregations
 - Production Unit field will be empty for Merged Production
- Created and terminated Merged Production structures will be visible in the MEC Changes view

Input Data > Production

Productions Overview Help

Validity: 11.11.2023 - Undefined Active

MEC ID: MBA: MGA:

Production Unit: Production Unit Type: Production Type: All Minor Normal

RE: BRP:

[Refresh](#) [Export to Excel](#) [Save Settings](#) [Restore Default](#) [View Columns](#)

| From | To | MEC ID | RE | BRP | MBA | MGA | Production Unit | Production Type | PU Type |
|------------------|-----------|------------|---------|----------|-----|------|-----------------|-----------------|---------|
| 22.11.2023 23:00 | Undefined | MEPR22393 | TEST RE | TEST BRP | SE1 | MGA1 | | Minor | Other |
| 14.11.2023 00:00 | Undefined | PROD114464 | TEST RE | TEST BRP | SE1 | MGA1 | TEST PU | Normal | Wind |

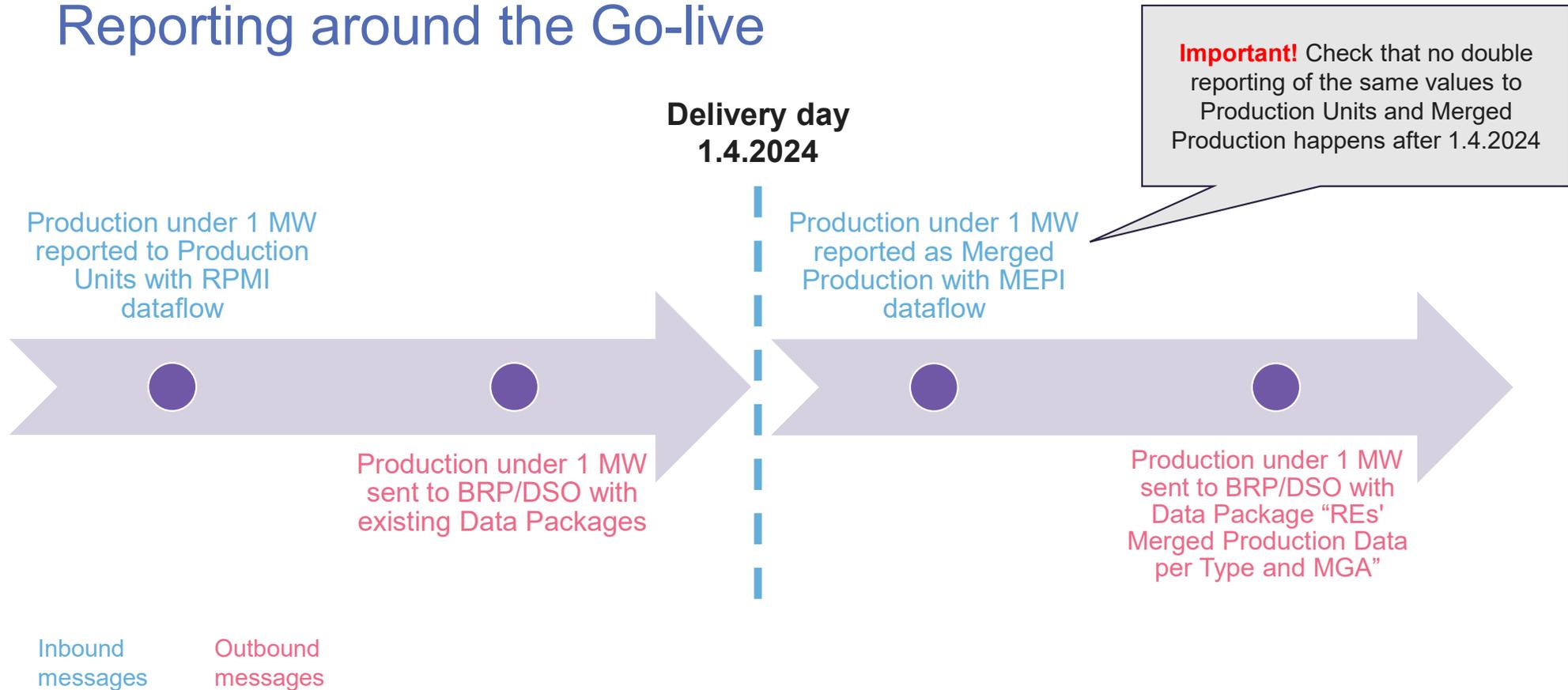
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Messaging and Data Packages

- Inbound messages (for DSO)
 - MEPI (Merged Production – In) for reporting of Merged Production to eSett
- Outbound messages (for DSO & BRP)
 - Data Package “REs' Merged Production Data per Type and MGA”
- Examples of these messages are found on the project page
- Information Service has its own dataflow for Merged Production. Documentation can be found [here](#)



Reporting around the Go-live



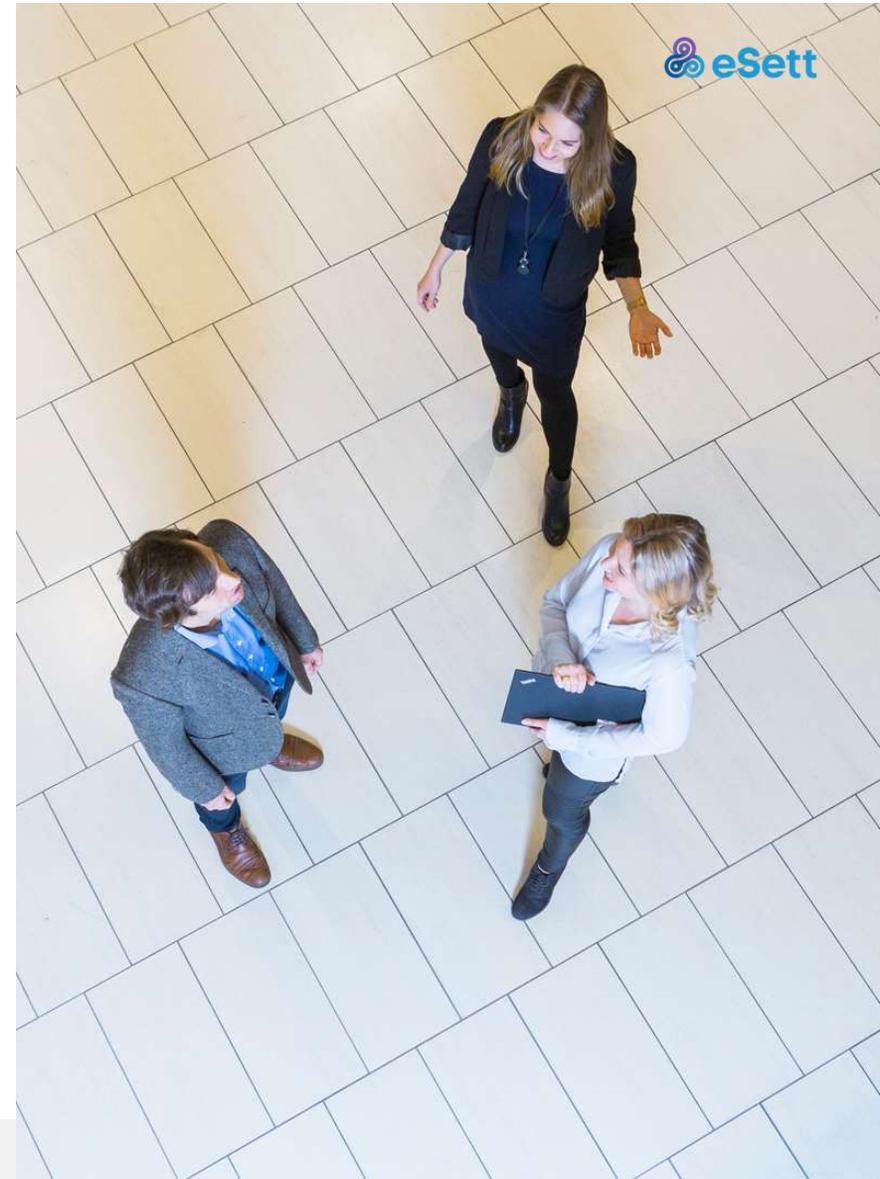
Agenda

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5. Questions and Answers



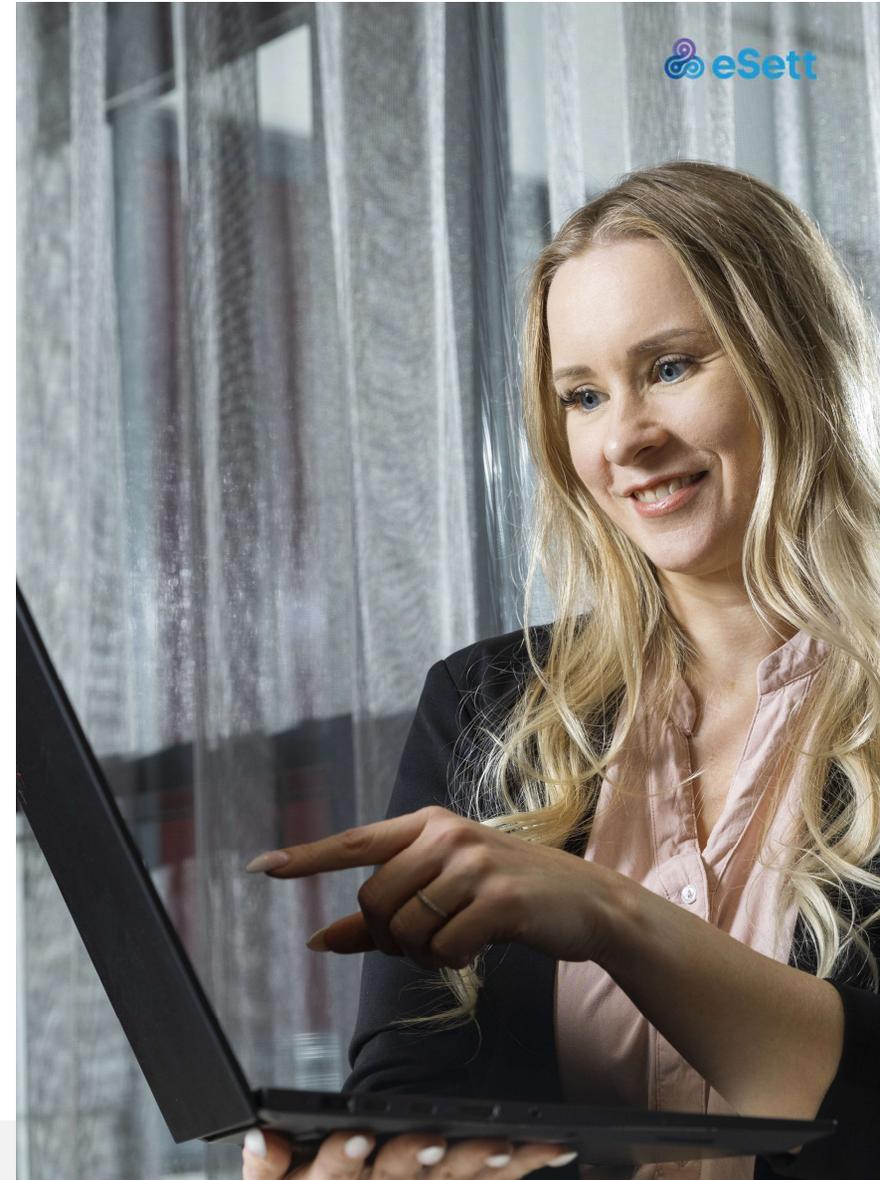
Testing - Requirements

- In order to test against eSett's test environment, technical connectivity must be ensured
- Requirements:
 - IP-address where data is sent/received (for firewall opening)
 - Communication channel information (SFTP, SMTP, Web Service, ECP/EDX)
 - Contact information for test environment Online Service admin
- Please provide the information mentioned above when contacting eSett about testing



Testing - Checklist

- Checklist for testing (DSO)
 1. Send MEPI to test environment
 2. Check that the structure is created and that values are reported correctly
 3. Test receipt of Merged Production values to your own system via new Data Package
- Checklist for testing (BRP)
 1. Test receipt of Merged Production values to your own system via new Data Package



Testing - Connectivity Info

Messaging Service – ECP/EDX Channel

eSett's endpoint: 44V00000000028C

Messaging Service – Web Service Channel

URL: <https://testservice2.esett.com/MSGS/messagingServiceInputInterface>

WS-Security Credentials: Separately distributed by eSett

Messaging Service – FTP Channel

Host: <ftp://testservice2.esett.com/>

Protocol: SFTP

Port: 22

Username/password: Separately distributed by eSett

Messaging Service – SMTP Channel

Host: testservice2.esett.com

Protocol: SMTP

Port: 25

Security: SSL/TLS

E-mail: inbox@testservice2.esett.com



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All questions and answers will be published with the Webinar material on eSett's project page



5. Questions and Answers

Q: Need for clarification about the Go-live reporting: it will be possible to send metered data for March 2024 with the old format continue doing that until March is closed? And sending March data in beginning of April using new format will not be allowed?

A: It will be allowed to continue using only the old format (production values to Production Units) for up until delivery day 31.3.2024. For delivery days after this, all DSOs in Sweden must report Minor production values using only Merged Production.
Normal production will continue to be reported in the same way as before even after 1.4.2024, the change only concerns production under 1 MW.



5. Questions and Answers

Q: Can I test as a system developer?

A: System developers or system vendors can also test against eSett's test environment. Please contact eSett about testing as a system developer so that we can take a look at your situation and whether we need to apply some test data for your testing needs.



5. Questions and Answers

Information from Svenska kraftnät that came up during the Webinar:

There will also be possible to test the "MEPI" messages at www.ediel.se, but no date decided for that yet.

An updated "Edielanvisning" (including examples) will be published at www.ediel.se beginning of December.



In case you need more information, please contact eSett Customer Service

- Create a Service Request on www.esett.com/contact
- Send email to settlement@esett.com
- Call +358 10 501 8500



WE SETTLE, TOGETHER!

