

# UDB-GO Registries Integration

**Analysis of alternatives** 

AIB-2025-GSG-03-03 Scenarios - Alternatives

27/02/2025

### Aim of this document



- → Assessment of alternatives for the integration of GO Registries (gas) with the UDB.
- → The assessment of alternatives outlines the potential data flows required for the integration of the main processes involved in the energy tracking: issuance, transfer and cancellation.
- → The analysis is limited to the point of view of the business processes.
- → The IT to be developed under each of these alternatives, can only be addressed once the modification to the business process is defined. **Therefore IT is not taken into consideration in this analysis.**
- → The costs associated to the different alternatives have not been assessed. A more detailed analysis of the flows involved will be required for a cost estimation.
- → This is not a position document, it does not express the position of AIB neither of AIB's members.

#### The assessment includes:

- 1. List of the assessed alternatives.
- 2. For each of the assessed alternatives:
  - 1. Simplified flowchart of the involved dataflows between UDB, GO Registry, EOs and other stakeholders involved.
  - 2. Analysis of pros and cons of the considered option

### **Integration models**



There is a wide range of grey between black and white

CENTRALIZING

UDB -primarily
GO Reg. - primarily
UDB receives data

29 January

UDB receives data

- → Extreme situation: the certificate exists in one database only, either UDB or the GO Registry(ies). The 'other registry' plays a secondary role, and its activity is limited to register production and cancelation.
- → The two extremes of this model are:
  - **OPTION 1 RENEWABLE CLAIMS IN UDB ONLY** The GO exists in the UDB only. GOs exist just as an attachment to the PoS. The GO Registry plays little or no role in the main processes.
  - OPTION 2 RENEWABLE CLAIMS IN GO REGISTRY WITH SUBMISSION OF TRANSACTIONS IN UDB the certificate exists in the GO
    Registry only, ensuring unicity of claims. Issuance and Cancellation is registered in the UDB. This is the alternative that would have
    been easily implemented under the scope of REDII.
- → Something in between:
  - OPTION 3 OUR UNDERSTANDING FROM 29 JANUARY
  - OPTION 4 Limited INTEGRATION UNIQUE CLAIMS TO BE ENSURED AT TARGET ACCOUNTING
- → Based on Art. 31a point 5 THE NATIONAL DATABASE
  - THE GO REGISTRY AS THE NATIONAL DATABASE





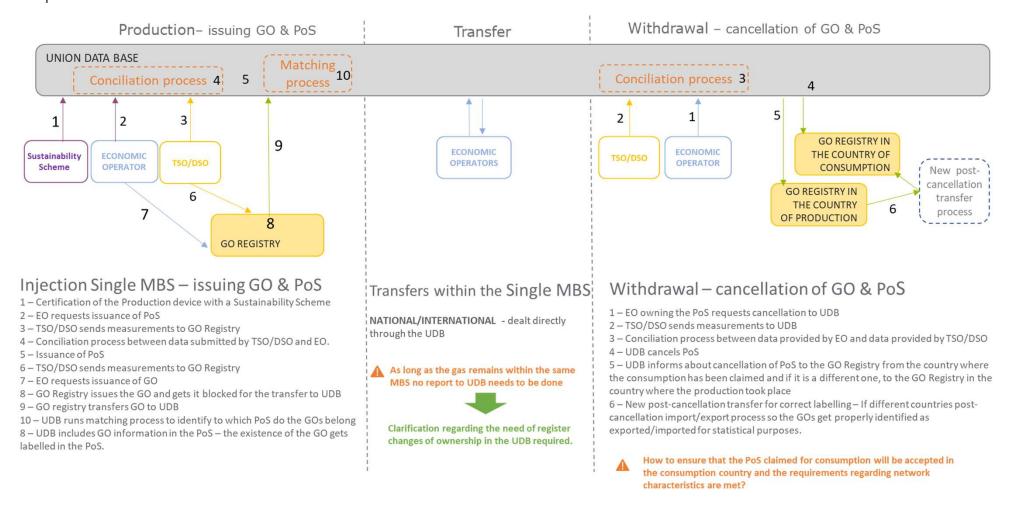
Renewable claims in UDB only

The GO exists in the UDB only. GOs exist just as an attachment to the PoS. The GO Registry plays little or no role in the main processes.

## **Option 1 – Renewable claims in UDB only**



#### → Simplified flows



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## **Option 1 – Renewable claims in UDB only**



#### → Pros and Cons

- Minimizes IBs responsibilities and resources required.
- (3) Is the easiest solution for IBs but it means dropping the responsibilities. Who is liable if the communications fail?
- Compatibility with Art. 19 under question. (Points 3, 4, 5, 6)
- 😕 Difficult interaction with EOs a massive helpdesk covering all native languages is needed.
- The supervisory role assigned to MS is overtaken by EUCOM. Who is liable in case of fraud for lack of supervision?
- is no longer needed the changes implemented for accommodation of gas GOs have been wasted (sunk costs).
- What happens with gas receiving Gos but no PoS and with gas receiving PoS but no GoS.
- ODB shall ensure that national Law is not undermined need to implement and keep updated 27 different configurations. (E.g. reference to ESR & ETS)





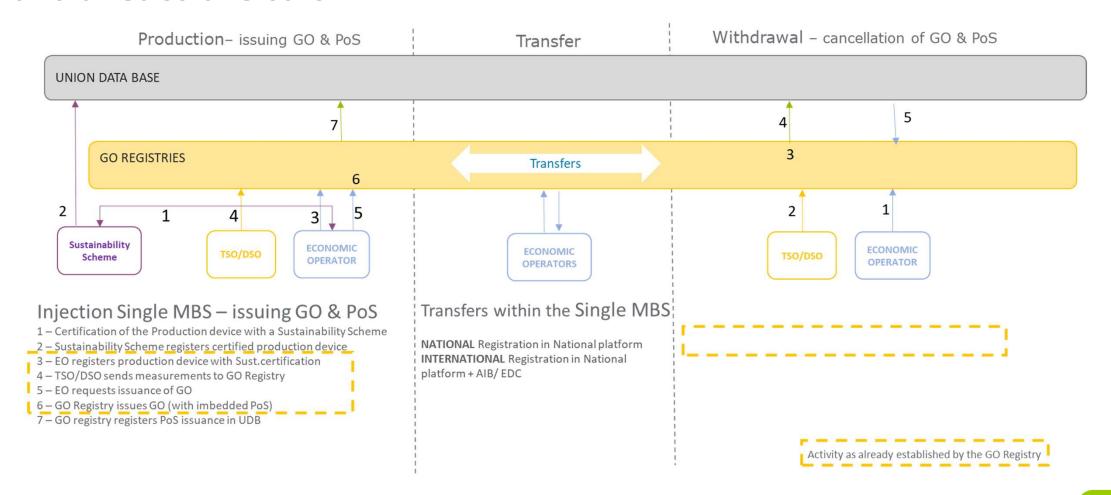
Renewable claims in GO Registry only & Reporting of transactions to UDB

This model implies that all ownership of GO and PoS is tracked in a national database, the result is sent to the UDB after GO cancellation in relation to a consumption point.

Emission and sustainability info is recorded on the GO.

# Option 2 – Renewable claims in GO Registry only & Reporting of transactions to UDB





# Option 2 – Renewable claims in GO Registry only & Reporting of transactions to UDB



- → Pros and Cons
- © Keeps the current way of working:
  - © For the newly established national gas GO registries.
  - © For the economic operators, minimizing reporting needs.
  - Interaction with producers at national level, in the local language, with minimizes the size of the helpdesk
  - ② National specificities implemented in the regulation defining the rules that apply to the Registry. Changes in National specifications continuously updated in the Registry.
  - ② National supervisory role articulated through the auditing procedures established in the GO Registry.
  - The GO becomes the PoS for all sustainable production.
- Compatibility with Art. 31a (4) under question [reporting of injection/withdrawal but not transfers]
- Bs become responsible for the correct information in PoS.





4th Comm. WG on UDB deployment - 29 JANUARY

Our interpretation of the last two webinars. Do we understand it correctly?

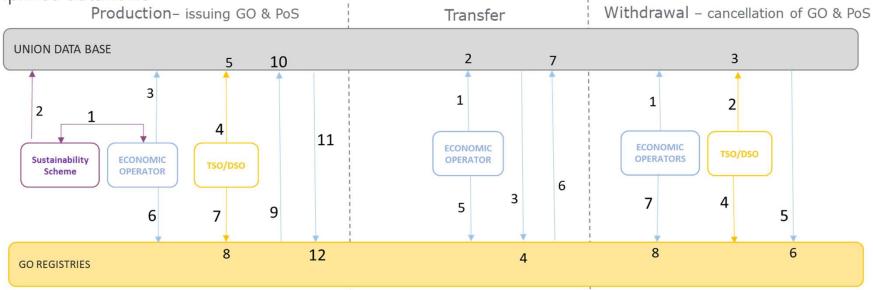
The PoS resides in UDB, the GO resides in GO Registries. The certificates evolve synchronously in both registries for the whole life cycle of both certificates.

All transactions are reflected in both GO Registries and UDB.

## **Option 3 – Integration model presented on 29 January**



#### → Simplified dataflows



#### Injection Single MBS – issuing GO & PoS

- 1 Certification of the Production device with a Sustainability Scheme
- 2 Sustainability Scheme registers certified production device
- 3 EO submits production data to UDB
- 4 TSO/DSO sends measurements to UDB
- 5 UDB pre-issues PoS
- 6 EO registers Production device in GO Registry
- 7 TSO/DSO sends measurements to GO Registry
- 8 GO Registry pre-issues GOs
- 9 GO Registry sends GOs info into UDB
- 10 UDB links PoS with GOs Issuance of PoS
- 11 UDB sends PoS reference to GO Registry
- 12 GO Registry includes PoS reference and issues GO

#### Transfers within the Single MBS

- 1 EO registers transfer in UDB
- 2 UDB informs GO registry of the transfer and locks PoS for transfer
- 3 UDB sends transfer to GO Registry
- 4 GO registry unlocks GO for transfer
- 5 EOs transfer the GOs
- 6 GO registry confirms transfer to UDB
- 7 UDB unlocks PoS for transfer

#### Withdrawal – cancellation of GO & PoS

- 1 EO requests cancellation of PoS in UDB
- 2 TSO/DSO sends measurements to UDB
- 3 UDB cancels PoS
- 4 TSO/DSO sends measurement to GO Registry (may be not needed)
- 5 UDB sends cancellation of PoS to GO Registry
- 6 GO Registry unlocks GO for cancellation
- 7 EO requests cancellation of GO
- 8 GO Registry cancels GO

## **Option 3 – Integration model presented on 29 January**



#### → Pros and Cons

- Compatible with Art. 19 and Art. 31a
- Compatible with the functioning of existing GO Registries, with a limited number of modifications.
- Solution Very complex data flows between the GO Registry and the UDB. A deep analysis of the 'what if' situations needed.
- 🖰 High risk of mismatching:
  - info sent to UDB by GO Registry not matching info sent by EO
  - Broken communication between UDB and GO Registries
- Difficult interaction with EOs a massive helpdesk covering all native languages is needed. (The parallel existence of the National GO Registries does not prevent the need for the UDB helpdesk)
- The supervisory role assigned to MS is kept within the National GO Registries.
- International transfers both in UDB and through GO Registries. Adaptation required





LIMITED INTEGRATION

**GOs and PoS handled independently.** 

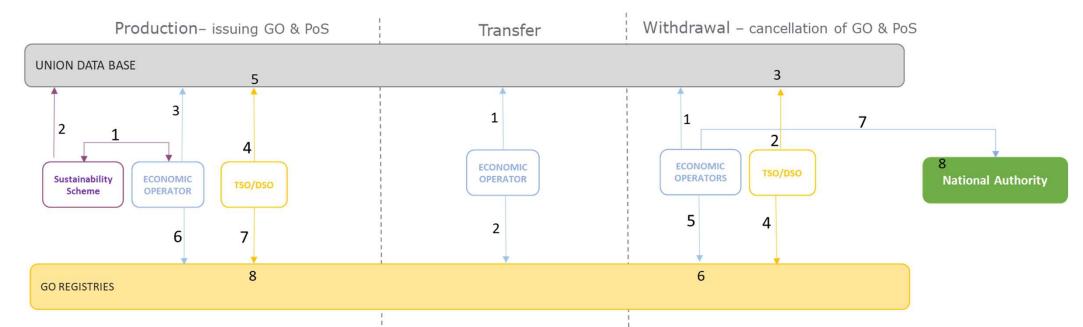
The unique claims are ensured by the National Authority in charge of target accounting.

The National Authority to require that both PoS and GO are cancelled in order to validate a claim.

## Opt. 4 - Limited INTEGRATION - Unique claims at target



**accounting**.
→ Simplified dataflows



#### Injection Single MBS – issuing GO & PoS

- 1 Certification of the Production device with a Sustainability Scheme
- 2 Sustainability Scheme registers certified production device
- 3 EO submits production data to UDB
- 4 TSO/DSO sends measurements to UDB
- 5- UDB issues PoS (not necessarily triggered by the reception of TSO/DSO data)
- 6 EO registers Production device in GO Registry
- 7 TSO/DSO sends measurements to GO Registry
- 8 GO Registry issues GOs

#### Transfers within the Single MBS

- 1 EO registers transfer in UDB
- 2 EO registers transfer in GO Registry (may be not needed)

#### Withdrawal - cancellation of GO & PoS

- 1 EO requests cancellation of PoS in UDB
- 2 TSO/DSO sends measurements to UDB
- 3 UDB cancels PoS
- 4 TSO/DSO sends measurement to GO Registry (may be not needed)
- 5 EO requests cancellation of GO
- 6 GO Registry cancels GO
- 7 EO sends to National Authority both PoS and GO
- 8 Target accounting by the National Authority: if the production facility receives GOs, the PoS is not accounted unless the corresponding GO has been cancelled

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# Opt. 4 – Limited INTEGRATION – Unique claims at target accounting. → Pros and Core



- Compatibility with Article 31a to be explored (no transfer of GOs into UDB).
- © There are no changes in the current configuration for GOs.
- © IBs avoid assuming additional responsibilities.
- Opproach based on established and currently working systems. (Tested solution)
- ightharpoonup The ability of the National authority to prove both GO and PoS are cancelled needs to be ensured.

➤ International transfers remains through GO Registries





# NATIONAL DB (Art. 31a (5)) built on the GO Registry

Implementation of 31a point 5.

The GO Registry plays the role of the NDB.

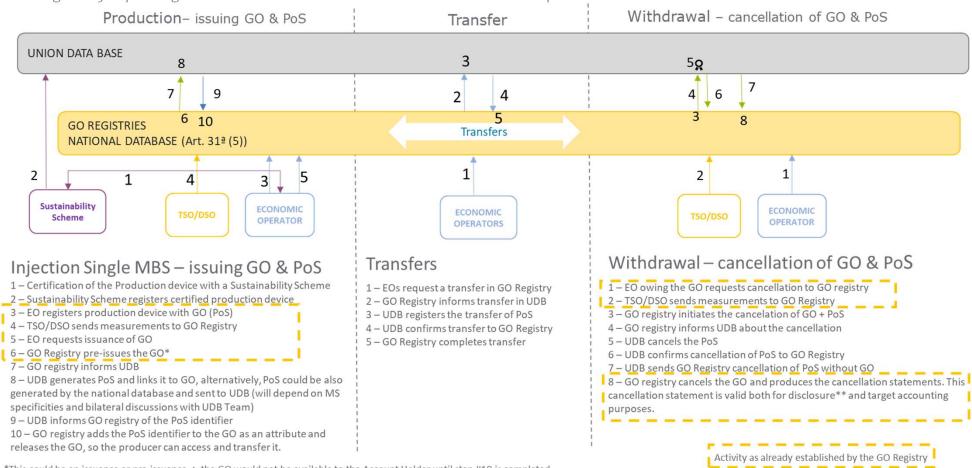
The interaction between EOs and UDB takes place through the National Data Base.

## NDB built on the GO Registries



#### → Simplified dataflows

Details might vary depending on the concrete MS that choses the national database option



<sup>\*</sup>This could be an issuance or pre-issuance -> the GO would not be available to the Account Holder until step #10 is completed

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<sup>\*\*</sup> Annex I Point 5 of Directive (UE) 2024/1788

## NDB built on the GO Registries



→ Pros and Cons

- © Compatible with Art. 19 and Art. 31a
- © GOs and the disclosure process is kept in the hands of GO Registries
- Minimizes the number of interactions and reporting for EOs and for Infrastructure Operators.
- Quite complex communications between the GO Registries and the UDB, which shall be secured by the data flows definition.
- interaction with EOs is kept at national level, minimizing the helpdesk needs of UDB and allowing the current personalized treatment of the Producers, in their national language.
- © Compatible with the current GO auctioning processes (in some countries).
- The supervisory role assigned to MS is kept within the National GO Registries.
- No risk of mismatching.
- International transfers remains through GO Registries, while the information might be provided also to UDB. Will depend on the requirements to be further specified.

## **Contact us**



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