AIB
association of issuing bodies

REGODISS

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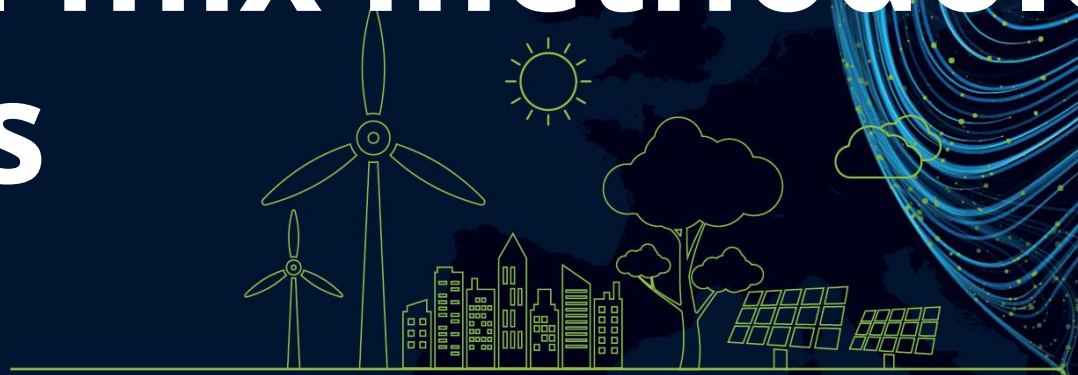
Stakeholder workshop

Residual mix methodology for gases

3 September 2024



Introduction and outline

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13:00	**CLOSE**		

→ Moderation: Katrien Verwimp (Project Leader)

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01

Welcome

Liesbeth SWITTEN

Secretary-General at AIB

Some house rules and practicalities

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- → Microphones and cameras are disabled by default
- → Chat is disabled
- → Please use Teams Q&A to add your questions
  - Upvote questions you share, this helps us prioritize!
  - Questions will be treated during the two Q&A slots, one before the break, one at the end
- → If you have technical difficulties, please ask for help in the “Technical support” Q&A item
- → During Q&A, use “raise your hand” if you would like to speak. The moderators will enable your mic and camera, after which you can turn them on
- → Please note that this webinar is recorded. We assume your consent if you are participating
- → The slides and recording will be publicly available after the workshop

02

Situation and context for the project

Henrik DAM

Senior Expert at European Commission – DG ENERGY

03

Project overview

Katrien VERWIMP

REGADISS Project Leader

Project

Formal project reference: N° ENER/2023/MVP/0010

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"**Technical assistance to develop methodologies compliant with disclosure obligations on RES gases**"

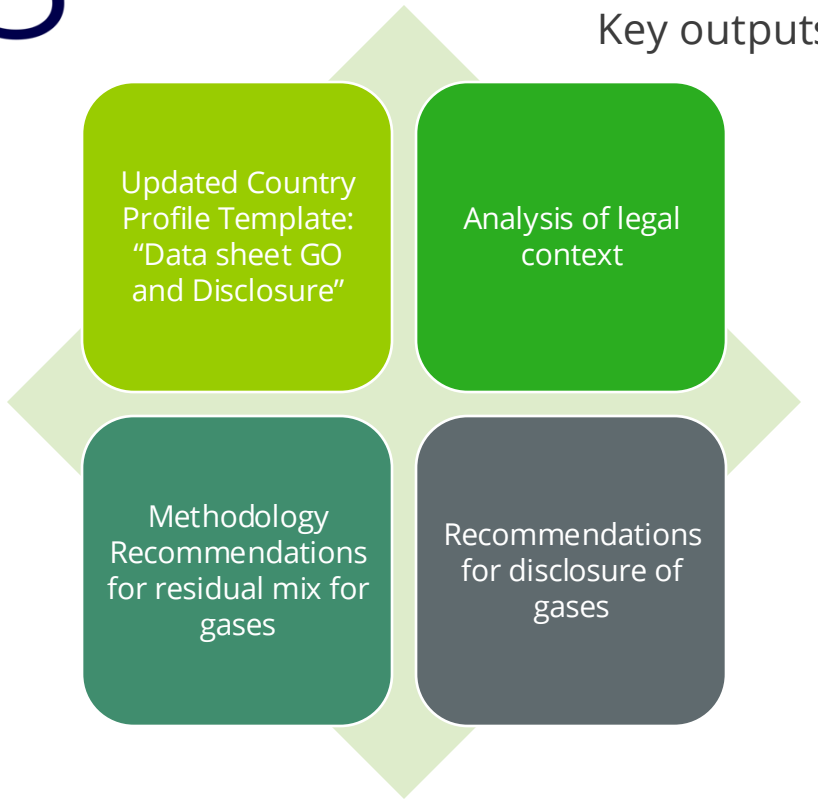
Operational project name :

"**REliable GAs DISclosure System**"

Project nature

- Service Contract to DG ENER
- 1 year
- Started on 28/12/2023

Key outputs



Project webpage: www.aib-net.org/REGADISS

Hello!

REGADISS Project Team

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Katrien Verwimp
Project Leader,
GO & Disclosure Expert

Shubham Sinha
Analyst

Erwin Cornelis
Analyst, energy policy expert

Bram van der Heijde
Consultation Lead,
Project Management support,
Gas GO Expert

Martin Standera
IT Coordinator

Giulia Nicolini
Operational support

Liesbeth Switten
Organisational Representation

Carmen Rodriguez
Gas Sector Expert

Angela Tschernutter
GO & Disclosure Expert

Martina Gabriel
Energy Market Expert

Kadri-Liis Rehtla
Gas Sector Expert

Project progress

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Task 1	**Analysis of the current legal framework and methodologies**	*Report delivered – task finalised*	Collected country profiles: Data sheets GO and Disclosure
Task 2	**Technical and legal requirements**	*Report delivered – task finalised*	Survey designed on RM method & system boundaries
Task 3	**Draft method for residual mix calculation for gases**	Survey finalized on methodological principles	Published
Task 4	**Stakeholder consultation and Dissemination incl Workshop**	Disclosure Platform meeting held	2 Surveys conducted	LinkedIn and newsletter communication	Public Workshop 3 Sept
Task 5	**Final version of the methodology**	Draft calculating sheet, Selecting 3 countries for calculation example	Include updates from T3 consultation

Today

Overall: Project coordination, admin and management activities

Timing: on track for the Key Deliverables

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Nº	SPECIFICATION/TITLE	DELIVERY /MONTH
1	Kick off meeting	10 days
2	Kick off meeting: report	17 days
3	Task 4.1 report: processes for stakeholder consultation	2
4	Task 1 report as part of the interim report	4
5	Task 2 report as part of the interim report	4
6	Interim report	4
7	Interim meeting	4
8	Task 3 report	6
9	Workshop	**3 September 2024**
10	Workshop: Summary report	9
11	Integrated Draft Report covering task 1-2-3-4-5	11
12	Final Integrated Report covering task 1-2-3-4-5	12
13	Final project meeting	12

Draft report on Residual Mix => final version by end 2024

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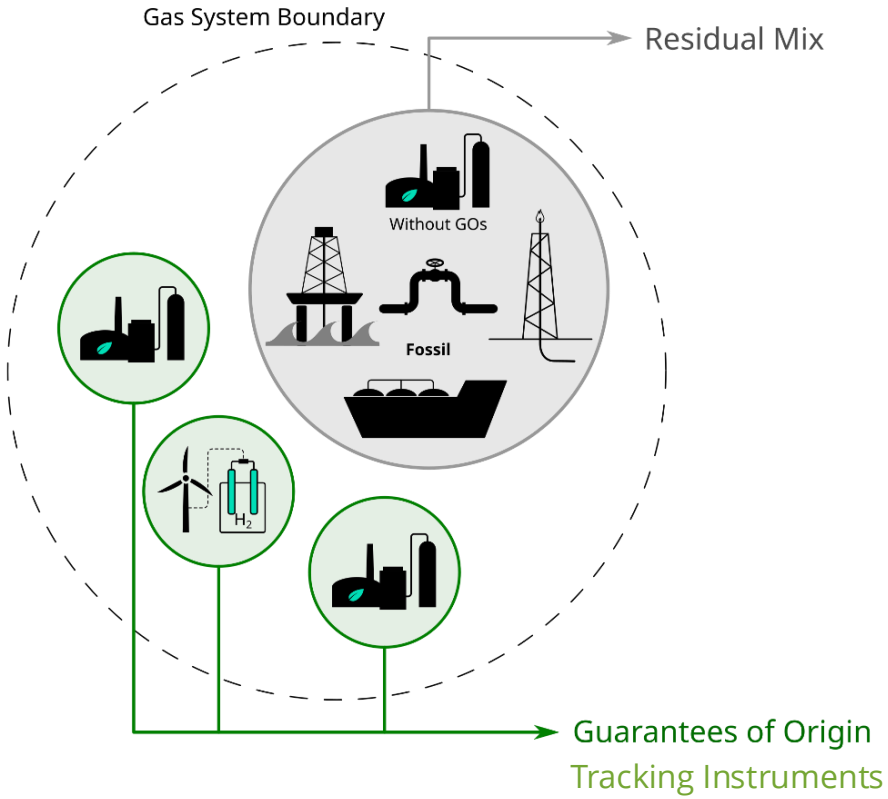

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→ Moderation: Katrien Verwimp (Project Leader)

04

Template Overview GO & Disclosure

Angela TSCHERNUTTER

GO and Disclosure Expert – E-Control

Updated Datasheet GO and Disclosure

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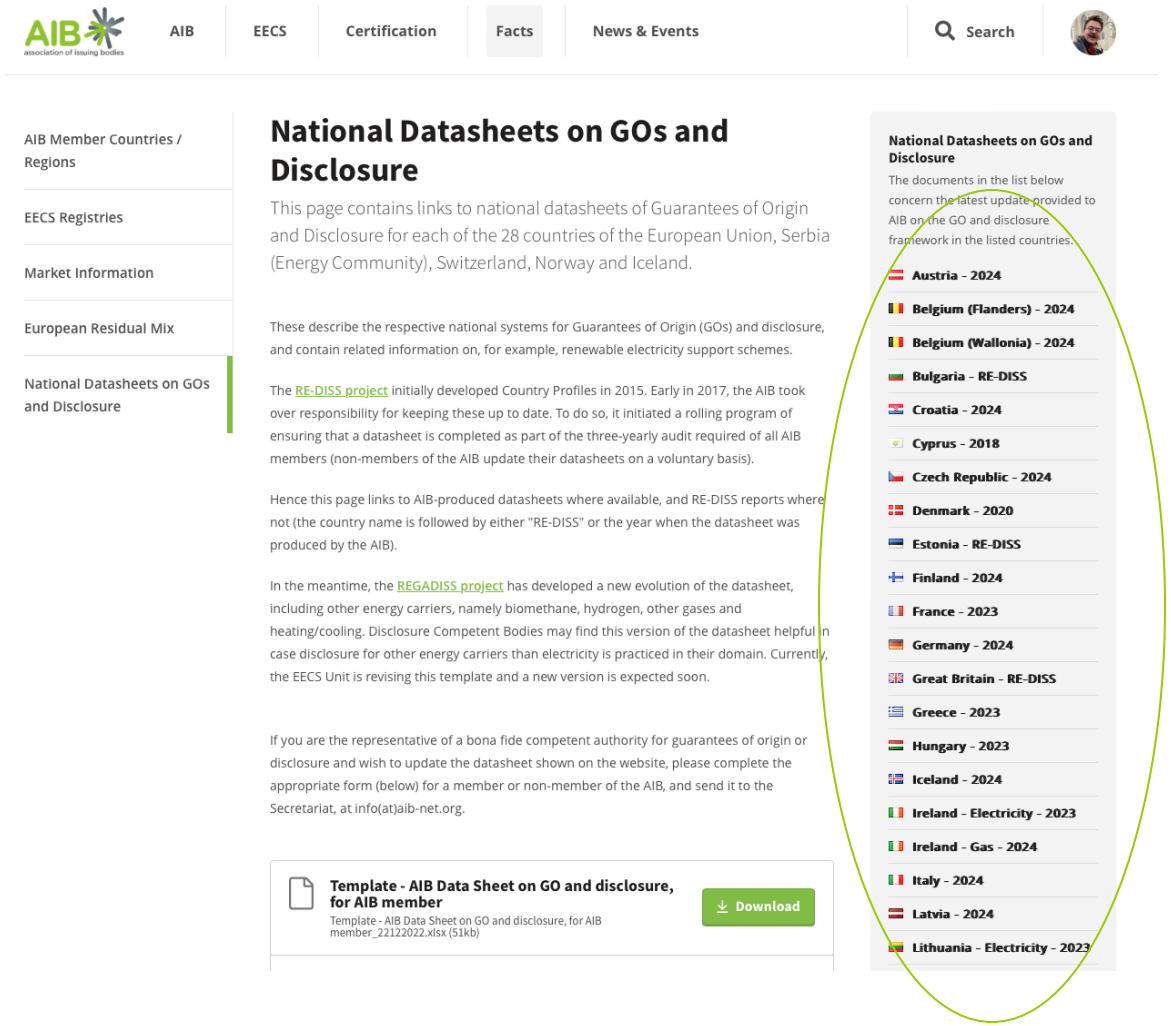
History, short summary

- *Originally developed by RE-DISS project aimed at overviewing the national status of implementation of the requirements of the European Directives on disclosure and GO systems across Europe.*
- *After end of RE-DISS taken over by AIB, further developed and part of the member audit (every three years)*
- *Published on AIB Website: https://www.aib-net.org/facts/national-datasheets-gos-and-disclosure*
- REGADISS
  - Revision by REGADISS Project Team:
    - Wording: statements instead of questions
    - **1 sheet for electricity, gas (natural gas incl. (bio)methane, hydrogen, other gas), heating/cooling**
    - New topics: PPAs, storage, data sources, UDB, reporting
  - Consultation amongst CB; Feedback on template received – included.
  - Presentation at REGADISS Stakeholder Meeting, some IB already use the template



Scope and aim

Current process & aim

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→ Publication on the AIB website

- Permanent value to AIB
- Permanent value to national Competent Bodies
- Better understand status of national implementation and practices
- Support in evaluation for national acceptance of GOs for disclosure
- For all AIB Members: every three years update required

→ Part of periodic review

- Mandatory to supply to review team
  - But contents are not a failure condition of the periodic review
- All questions could be considered voluntary; the more is filled in, the more useful for the competent body itself and other competent bodies
  - Questions can be left open if answer is not known

Updated Datasheet GO and Disclosure

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Template (excerpt)

[Please fill in Country]	Electricity	Natural Gas including (bio)methane	Hydrogen	Other Gas	Heating/Cooling	Space for comments	
	[Author]	[Author]	[Author]	[Author]	[Author]		
	Actual implementation in the MS	Actual implementation in the MS	Actual implementation in	Actual implementation in the MS	Actual implementation in		Instructions for assessment/explanations
	[Please fill in date on which you filled in]	[Please fill in date on which you filled in]	[Please fill in date on which you filled in]	[Please fill in date on which you filled in]	[Please fill in date on which you filled in]		
Section A (Higher priority)							
Legislation							
Implementation of Article 19 (8) of the Directive 2018/2001 and amended with 2023/2413							
Have you fully implemented the requirements of Art. 19 (8) of Directive 2018/2001(EU) amended with 2023/2413(EU)							Yes/No
- If not, please specify which elements you have not implemented yet.							Please specify
Timing of disclosure							
Do the production period on the GO and the disclosure period coincide?							Yes/No
Are GOs valid for transactions for more than 12 months after the production of the energy unit?							Yes/No
- If yes, please specify							Please specify
Do GOs that have not been cancelled expire at the latest 18 months after the production of the energy unit?							Yes/No
- If no, please specify							Please specify
Are expired GOs collected into the Residual Mix (by fulfilling the statistic requirements of AIB)?							Yes/No
- If no, please specify							Please specify

Datasheet contents

Section A – Higher priority information

→ Legislation
- Implementation of Article 19 (8) of the Directive 2018/2001 and amended with 2023/2413
- Timing of disclosure
- Recognition of GOs from other countries
- Energy storage

→ Issuing and cancelling of GOs
- Unit of energy represented by a GO
- Usage ex-domain cancellations
- Production data sources
- GO usage per system boundary

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Datasheet contents

Section A – Higher priority information *(Continued)*

→ Disclosure
- General
- Calculations of RM
- Information on Disclosure communication
- Consumption data
- Timeline of disclosure
- Union Database and disclosure supervision

→ Other issues
- Full disclosure
- Purposes of the GO
- Regulations on Power Purchase Agreements

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Datasheet contents

Section B – Lower priority questions

- → Information on Environmental Parameters
- → Other Reliable Tracking Systems (RTS)
- → Proof of Sustainability (PoS)

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→ Moderation: Katrien Verwimp (Project Leader)

05

Overview of gas GO and disclosure implementation in national contexts

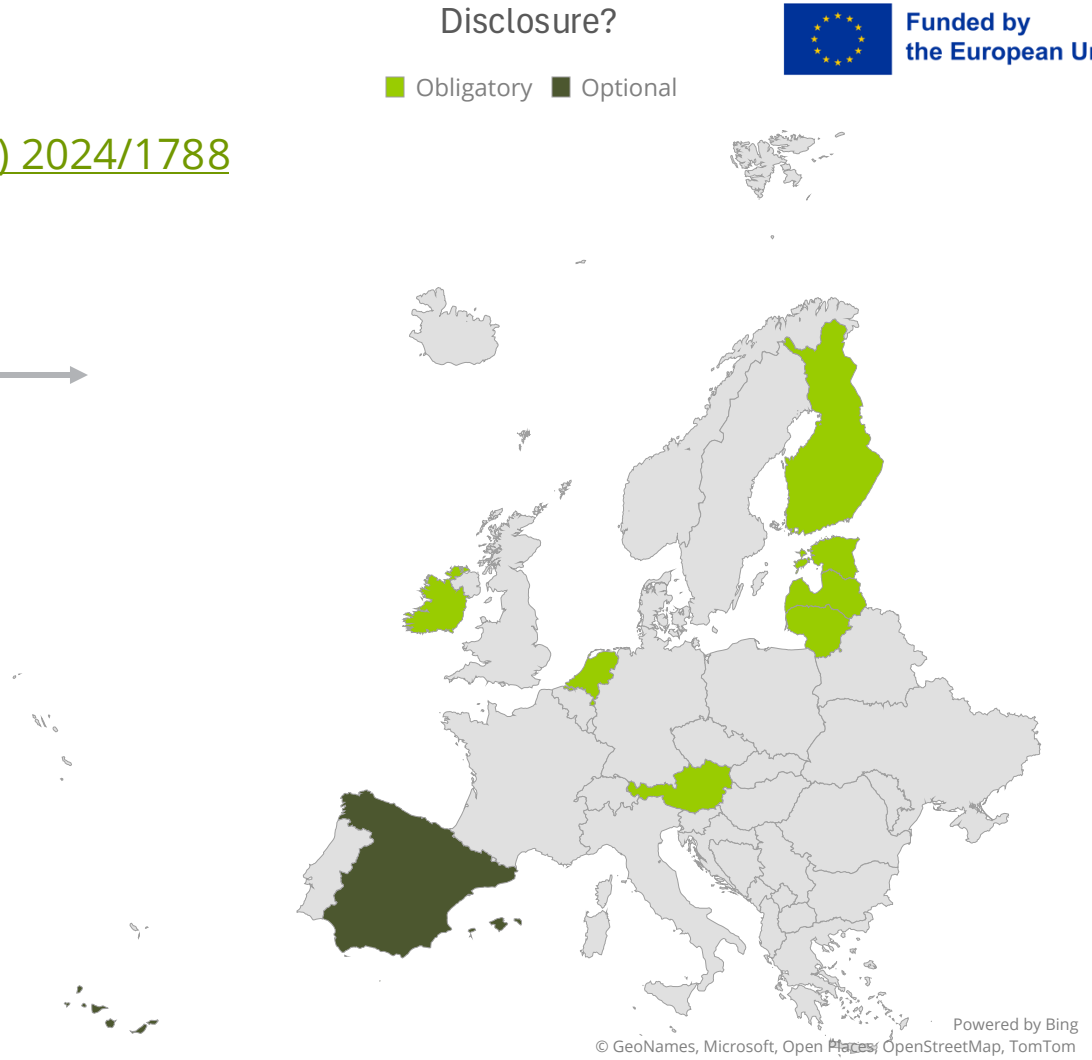
Bram van der HEIJDE

REGADISS Consultation Lead

Status of gas disclosure

Gas GO and disclosure implementation overview

- → Supplier disclosure mandatory as per recast Gas Directive (EU) 2024/1788
- → No country has yet established a Residual Mix for gas
  - Precondition for reliable disclosure
- → Gas disclosure obligation in several countries
- → Currently little to no disclosure statistics



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Appointed gas GO Issuing Bodies

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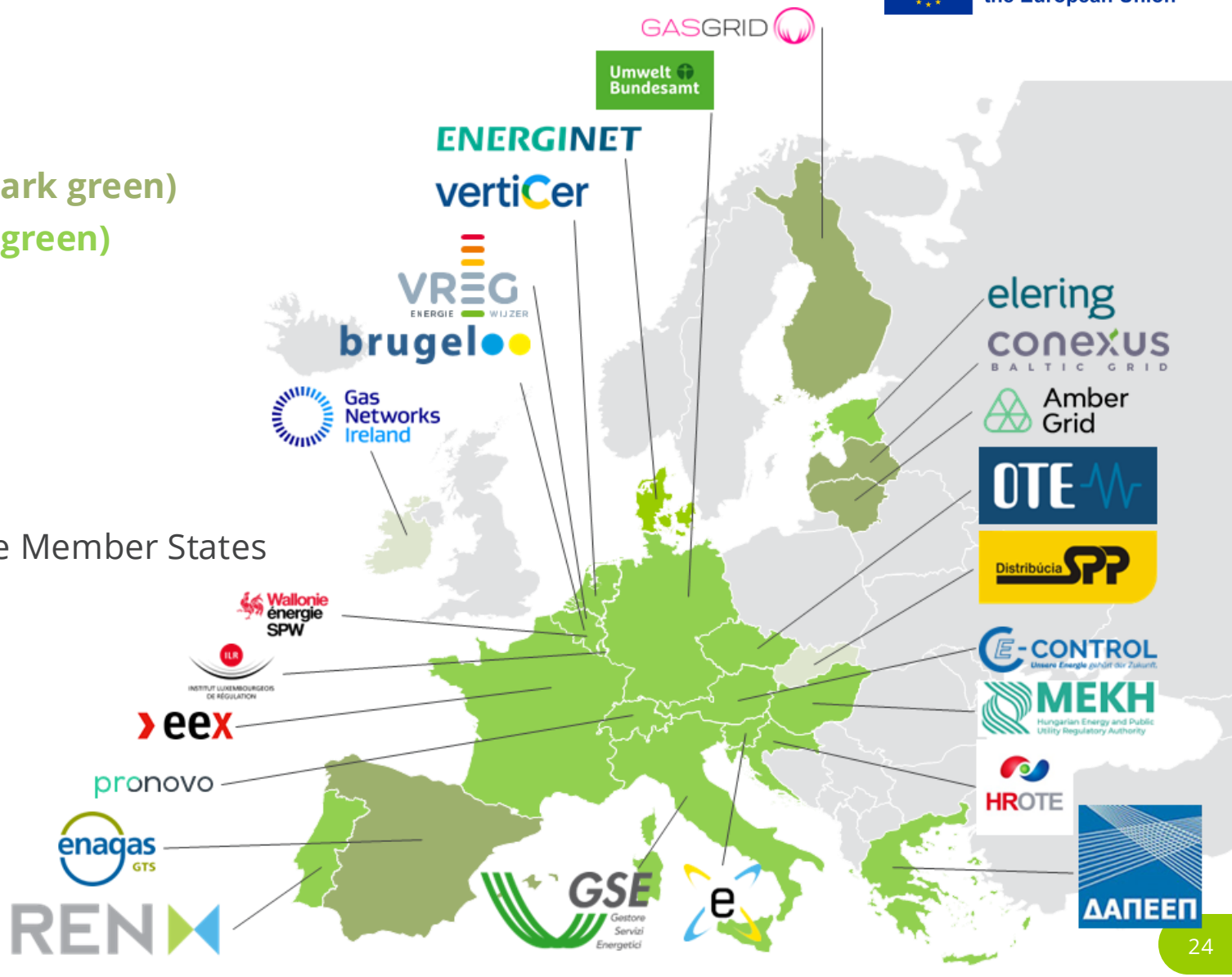
Gas GO and disclosure implementation overview

→ 24 appointed
- 22 AIB Members
  - 4 separate from electricity Issuing Body **(dark green)**
  - 18 electricity & gas Issuing Bodies **(bright green)**
- 2 not yet member of AIB **(pale green)**

→ Statistics about GO issuance largely unknown

→ RED2 Art. 19 transposition still pending in some Member States
- Awaiting CEN EN16325 finalization



Conclusions

Gas GO and disclosure implementation overview

- → Gas GO issuance being rolled out
- → Disclosure of gas somewhat lagging behind
- → GO issuance and disclosure statistics not yet readily available
- → Harmonised Residual Mix calculation could accelerate roll-out gas disclosure

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→ Moderation: Katrien Verwimp (Project Leader)

06

Instruments for Gas Disclosure

Katrien VERWIMP

REGADISS Project Leader

Legal basis for disclosure of supplied / consumed gas

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→ Gas & H2 Directive (Recast): legal disclosure obligation on suppliers

- Mandatory disclosure by gas suppliers (for renewable and low-carbon gases)
  - Source information on the bill
  - Disclosure of renewable gas only by using guarantees of origin (GOs)
  - CO_2 Information on environmental impact on the bill, in at least terms of CO2 emissions
  - Supervision on reliability of information by Member States
  - Cancelled GOs shall correspond to the network characteristics of gas consumption

→ Corporate Sustainability Reporting Directive (CSRD): legal disclosure obligation on Corporates

- Sources
- Emissions (market based AND location based)

Only renewable if clearly defined in the contractual arrangements with suppliers (renewable power purchasing agreement, standardised green electricity tariff, market instruments like **Guarantees of Origin**)

→ Green Claims Directive (draft)

Instrument for gas suppliers to inform customers: guarantee of origin

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Disclosure instruments by legislation

(REDIII art. 19.8 & Recast Gas & H2 Directive Annex 1.5)

- Renewable Gas: GO
- Low-carbon gas: ?
- Untracked commercial offers: residual mix

Residual Mix =

"residual energy mix" means the total annual energy mix for a Member State, excluding the share covered by cancelled Guarantees of Origin

MS shall **publish RM annually**

Expired GOs must be in RM

RM = **for untracked commercial offers**

(Source: REDIII art. 2 & 19)

BUT: other Tracking Systems used in the market

- Market-based instruments other than GOs:
  - Non-governmental certificates of origin ("CoO")
  - Proofs of Sustainability
  - Mass balance bookkeeping records
  - PPA (contract-based tracking)
- Location-based method
- Statistics
- …

- When are these Reliable? Double claimed?
- Are they to be excluded from RM?
- Is their use causing illegal claims?

Draft **Green Claims Directive** => assessments

Interacting legal requirements on gas origin tracking

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→ **Purposes of energy tracking**

- **Disclosure**: informing consumers => GOs
- Policy **Target** Accounting
  - At national level => Eurostat Shares / Statistics
  - At consumption point = > Union Database
- **Support**: EU-ETS, …

→ GO and PoS tracking coming together in the Union Database

REDIII Art. 31a§4

"Where GOs have been issued for the production of a consignment of renewable gas,

MS shall ensure that those are transferred to UDB at the moment when a consignment of renewable gas is registered in the UDB and

are cancelled after the consignment of renewable gas is withdrawn from the Union's interconnected gas infrastructure.

Such GOs once transferred, shall not be tradable outside the UDB"

Central <-> national responsibilities

GO cancellation must take place under the control of the country where the RES consumption is claimed

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EU Central administration

- Supply chain tracking of sustainability characteristics (PoS, GHG)
- Monitor eligible quantities for Targets

National responsibilities

- Ensure the origin of RES can be guaranteed (REDIII)
- Issue GOs on request of producer (REDIII),
- Ensure the same unit of RES is counted only once (REDIII),
- Calculate residual mix (REDIII),
- Ensure that used gas GOs correspond to "network characteristics" of gas consumption (REDIII),
- Supervise reliable disclosure (Gas &H2 Directive),
- Ensure substantiated green claims (draft Green Claims Directive),
- National support systems (REDIII),
- Require EO to show criteria are met for target accounting (REDIII),
- Adhere to EN16325 GO standard (REDIII) , …

Source: REDIII, Recast Gas &H2 Directive, CSRD – ESRS, (draft) Green Claims Directive

Interacting legal requirements on gas origin tracking

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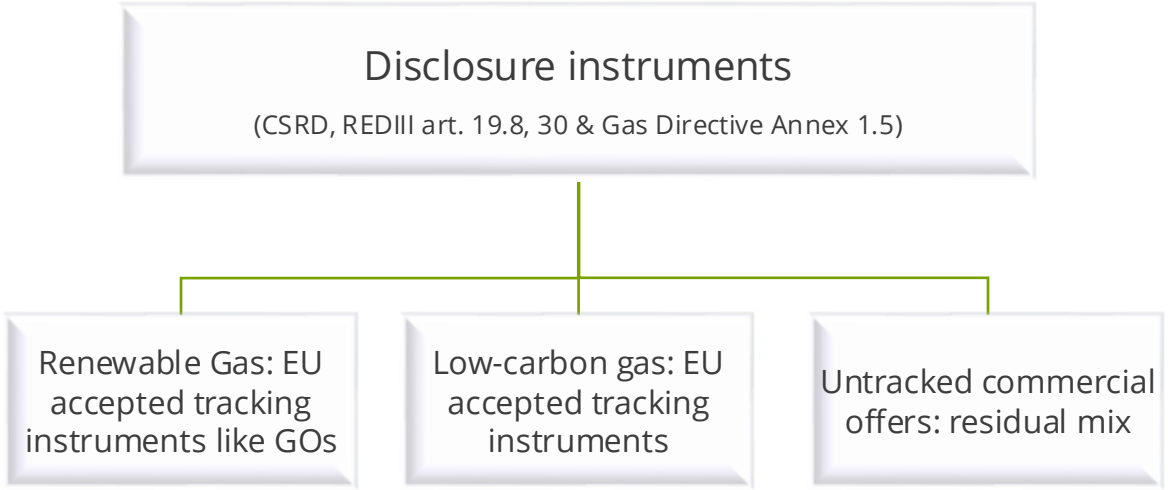
→ **Tracking instruments** for renewable gases:
- GOs
- Other tracking instruments than GOs ONLY
  - For other parties than gas suppliers
  - If preventing double claims
    - mass-balanced, tracked in UDB



Landscape shaping is still ongoing

→ **Differences between GO and PoS rules** to overcome
- GO Expiry, auxiliary handling, MS responsibility for accepting disclosure, import criteria

→ Varying **National configurations for interacting between GO and UDB**

→ Needing **statistics from UDB** on RES Gas Consumption into national Disclosure supervision

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→ Moderation: Katrien Verwimp (Project Leader)

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07

Q&A

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08

Break

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09

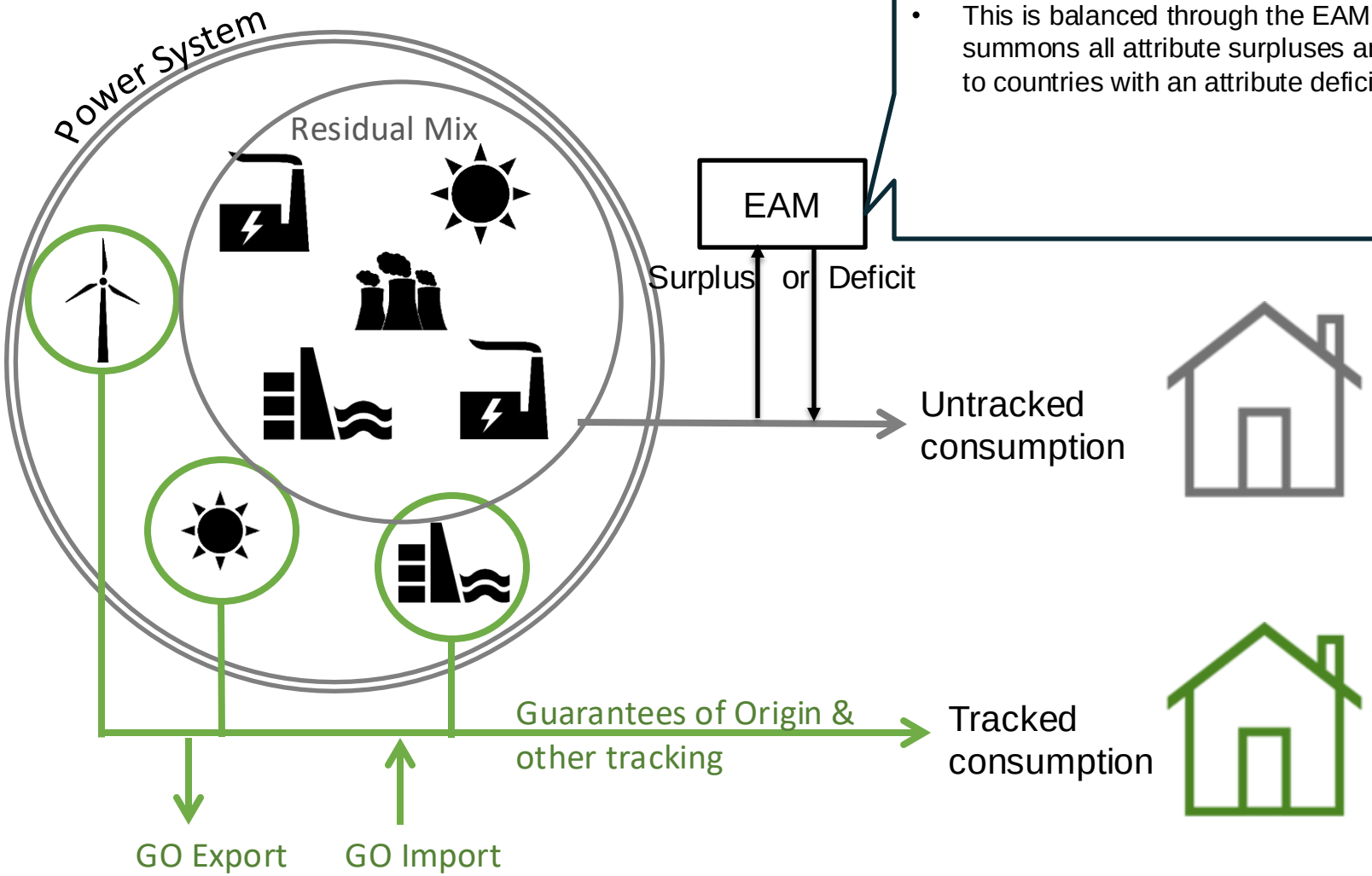
Residual Mix Methodology for Electricity

Markus KLIMSCHEFFSKIJ

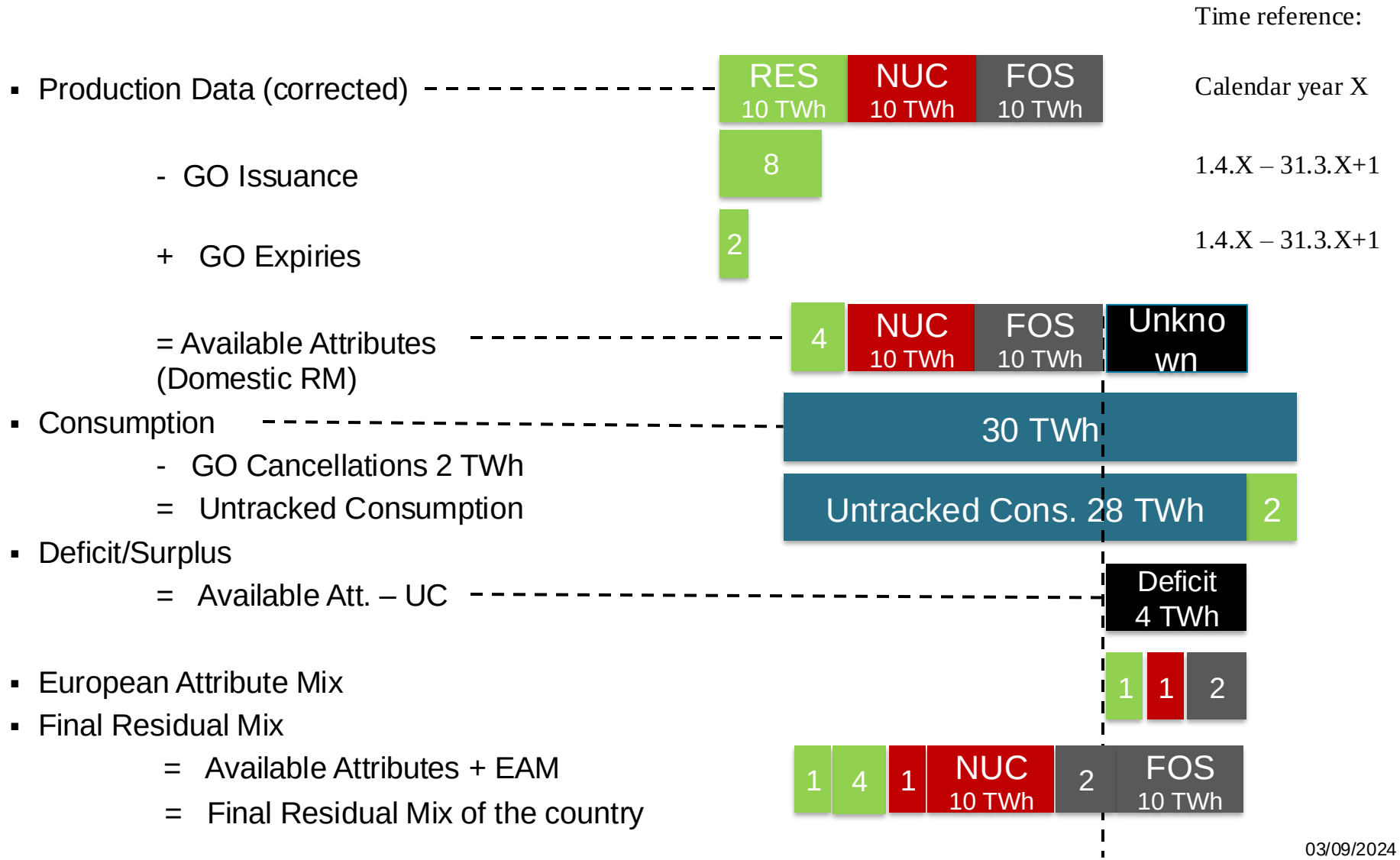
CEO at Grexel

Residual Mix – Allocation of attributes for untracked consumption

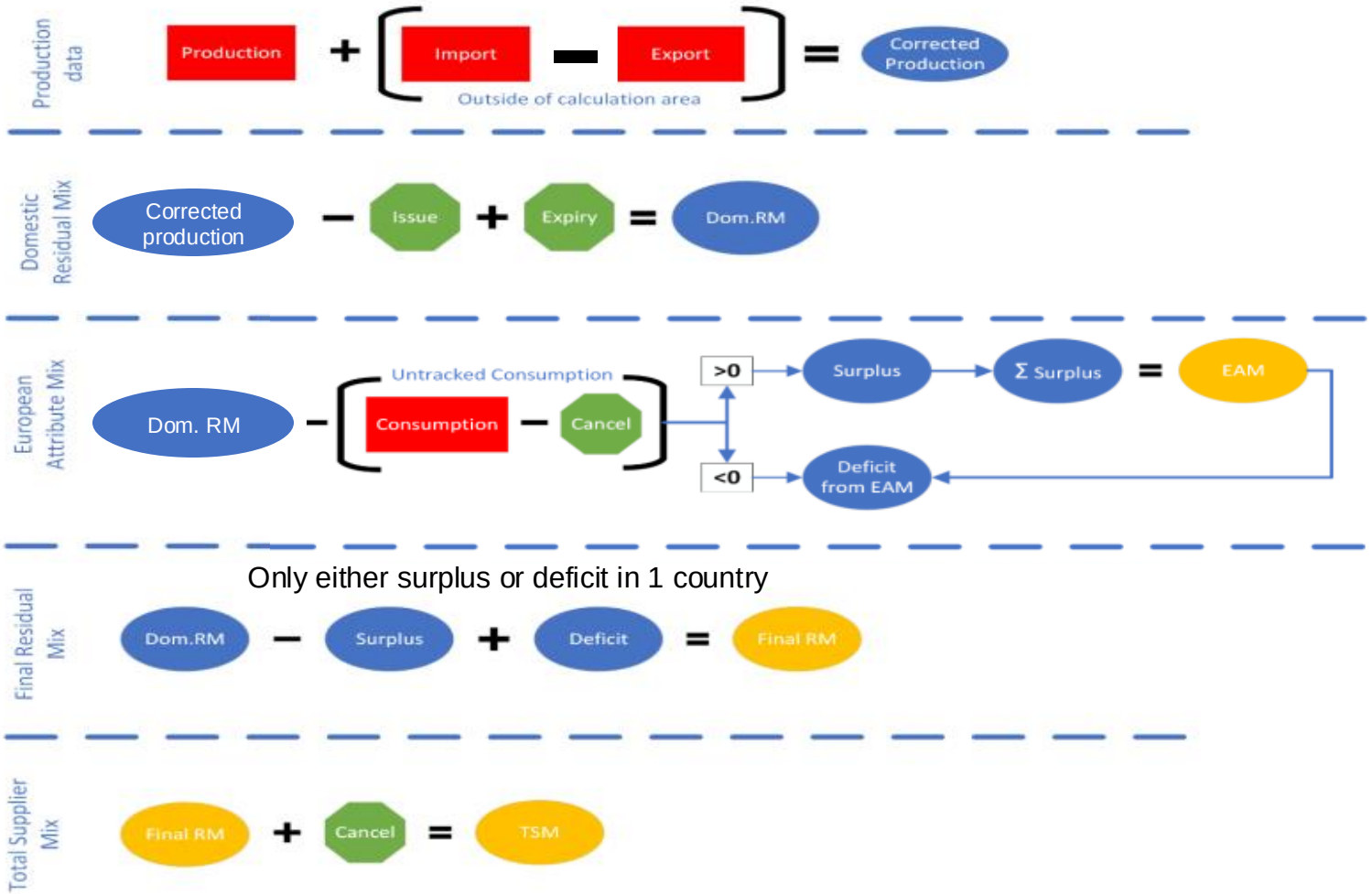
- Due international electricity and GO markets a country's residual mix does not equal in size its untracked consumption.
- This is balanced through the EAM, which summons all attribute surpluses and redistributes it to countries with an attribute deficit.



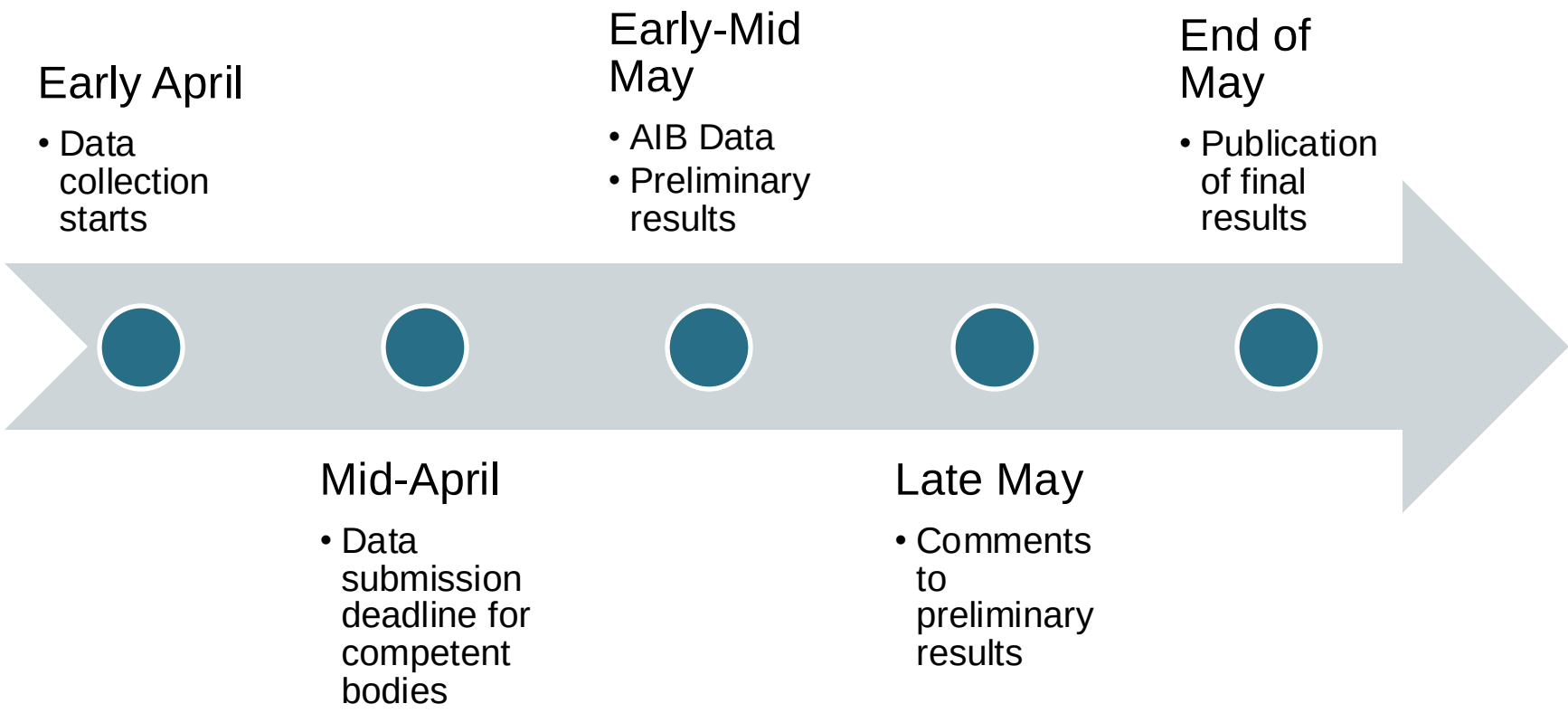
Calculation Methodology in Short



Residual Mix and European Attribute Mix Calculation Methodology



Data collection process



Additional details

Production data

- Sources: Nationally provided (when available), or Eurostat (prod./cons.), ENTSO-E (exchange with external countries)
- Sources CO2: Nationally provided factors (when available), or Ecoinvent
- Physical import/export considered **only** with external countries neighboring the calculation area: Russia, Belarus, Ukraine, Moldova, Turkey, Albania, N-Macedonia, Kosovo, Morocco
- Imported physical mix from ext.: residual mix (where available) or production mix of the external country
- Exported physical mix to ext.: preliminary domestic residual mix of the internal country

Domestic Residual Mix

- Sources: AIB Statistics, Nationally provided data for other RTS and ex-domain cancellations
- All transactions: issuance, expiries, cancellations are based on transaction time 1.4.X – 31.3.X+1

European Attribute Mix

- Ideally surplus = deficit, but due 12-month lifetime, issuing does not equal expiry + cancellations yearly
- EAM is expanded / shrunk accordingly
- EAM CO2 factor calculated based on attributes from surplus countries

Final Residual Mix

- AIB calculates residual mixes for all countries within the calculation area.

Total Supplier Mix

- For information, demonstrates the total disclosure mix of the country (residual mix + cancelled GOs.

Thank you!

Introduction and outline

→ Moderation: Katrien Verwimp (Project Leader)

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10

Draft Residual Mix Methodology for Gas

Erwin CORNELIS

Senior Expert Energy Policies

Draft Residual Mix methodology for gas

→ **Default methodology**

- Based on Residual Mix methodology for electricity
- Modifications to adapt to gas

- **Fall-back methodology**
  - In case default methodology deems to be too challenging

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DEFAULT Residual Mix method for gas, per domain

→ Basis: Residual Mix methodology for **electricity**

(source: Residual Mix calculation methodology 2020: Shifted Issuance Based Methodology)

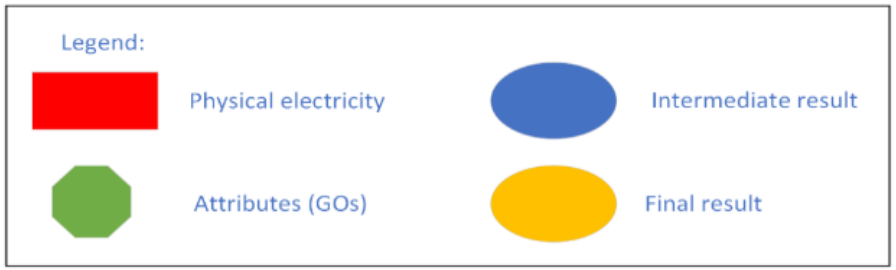
1) How much energy added

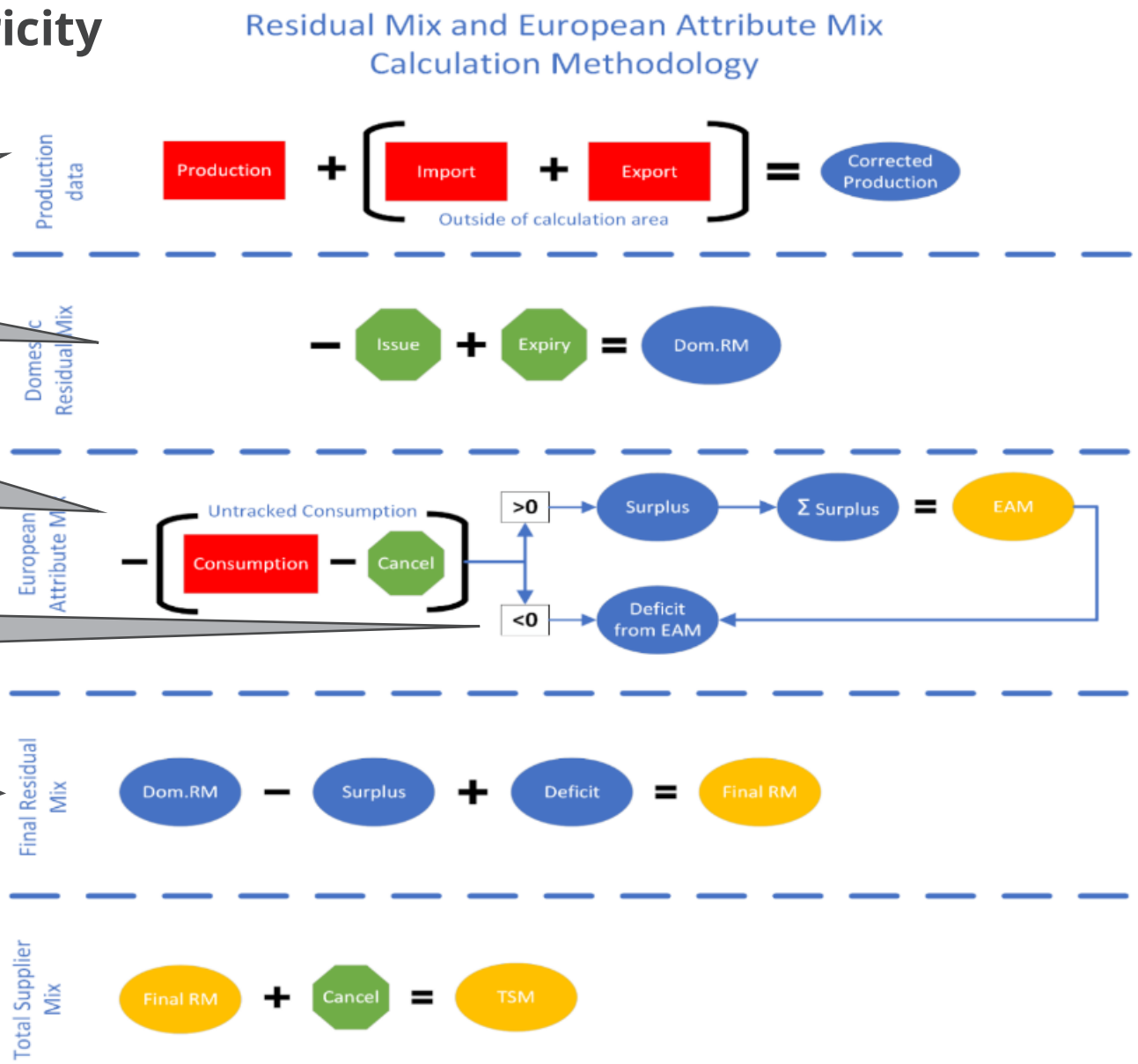
2) … that is **not** represented by tracking instruments

3) How much **Offtake** not represented by tracking instruments (GOs)

4) Surplus Attributes are pooled and redistributed over domains with a Deficit

5) Residual Mix = unused Attributes ± redistribution





DEFAULT Residual Mix method for gas, per domain

→ Basis: Residual Mix methodology for **electricity**

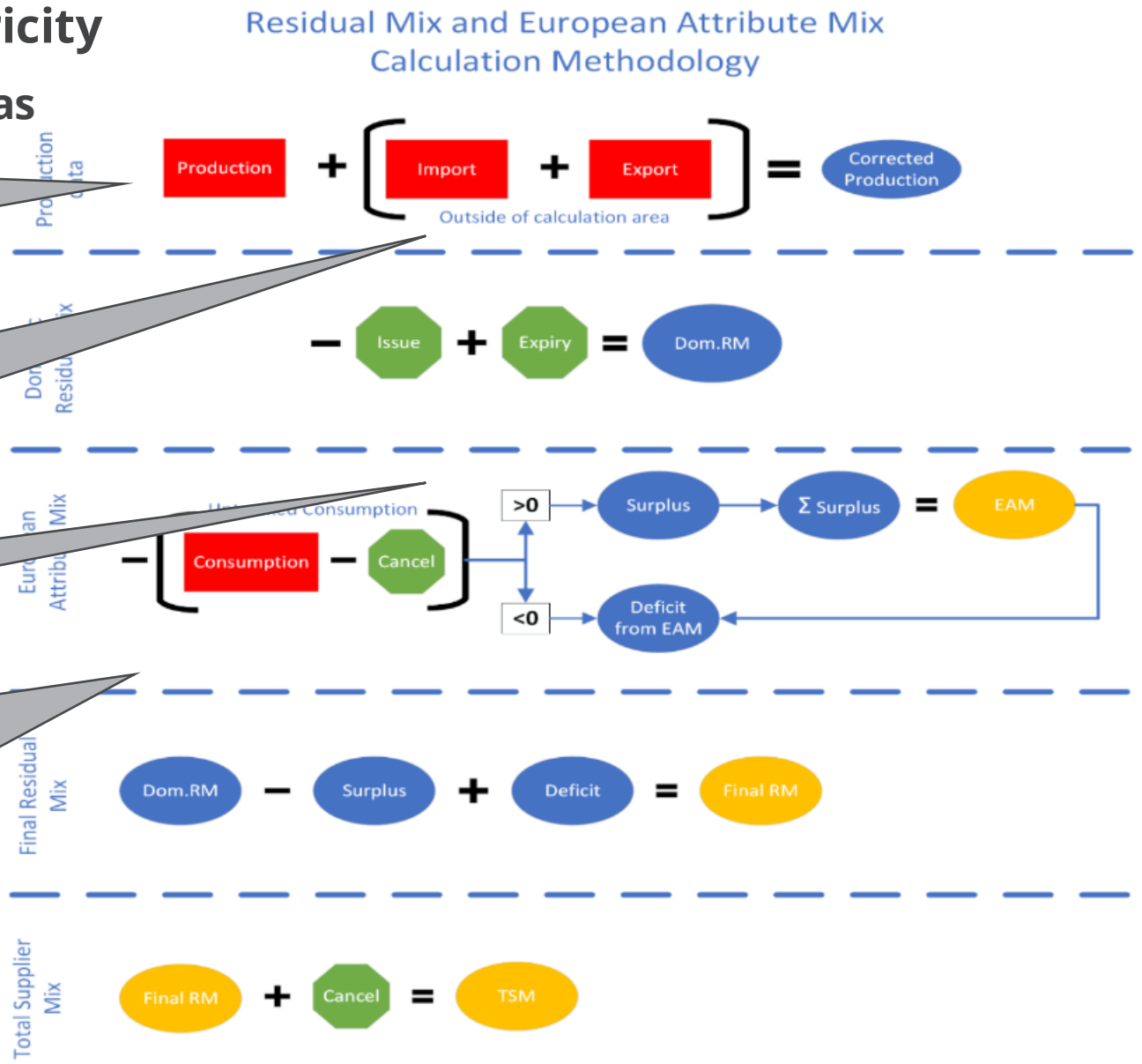
- **Modifications** to adapt the methodology **for gas**

Production: split into:
- Yield (natural gas, biogas) + Conversion (hydrogen)

Import / export (from outside the Union):
- Very significant for gas
- Import / export of energy + of tracking instruments

Tracking instruments:
- Include UDB tracked gas on top of GOs?

Storage:
- Very significant for gas
- Correction of consumption (storage: higher consumption – discharge: lower consumption)
- No bookkeeping of stored attributes in storage facilities



DEFAULT Residual Mix method for gas

→ Building blocks

Type of gas
Methane
(Ethane)
(Propane)
(Butane)
(Dimethyl ether)
Hydrogen
(Ammonia)
Unspecified

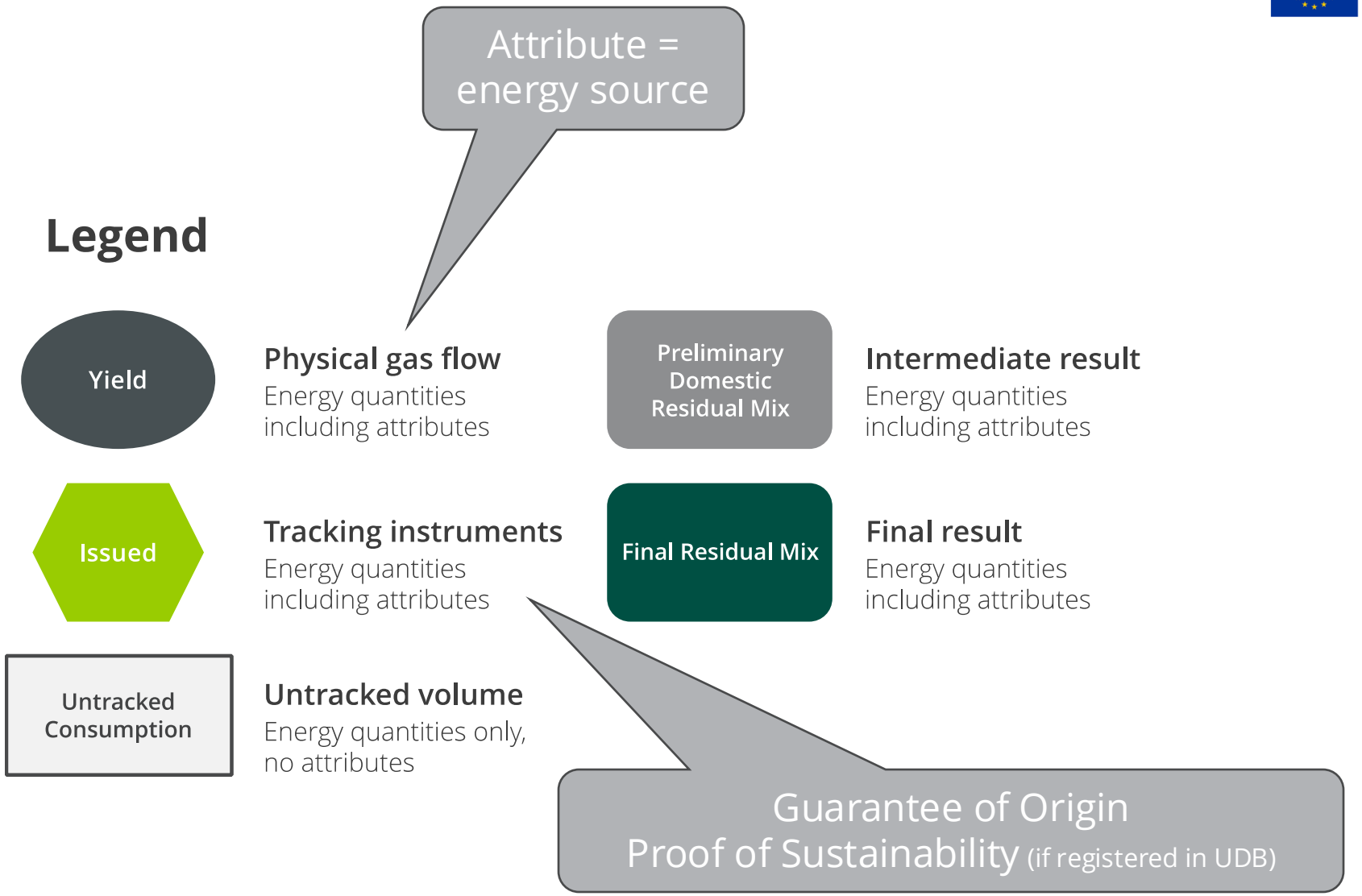
Dissemination level
Transmission and distribution level
(Closed network)
(Vehicle)
(Unspecified)

System boundaries
~~One system for all gases combined~~
Methane system / Hydrogen system
~~Geographical confined networks~~

Energy source	
Renewable	Biomass
	Solar
	Wind
	Hydro
	Other
Fossil	Low-carbon
	Other
Nuclear	Nuclear

DEFAULT Residual Mix method for gas

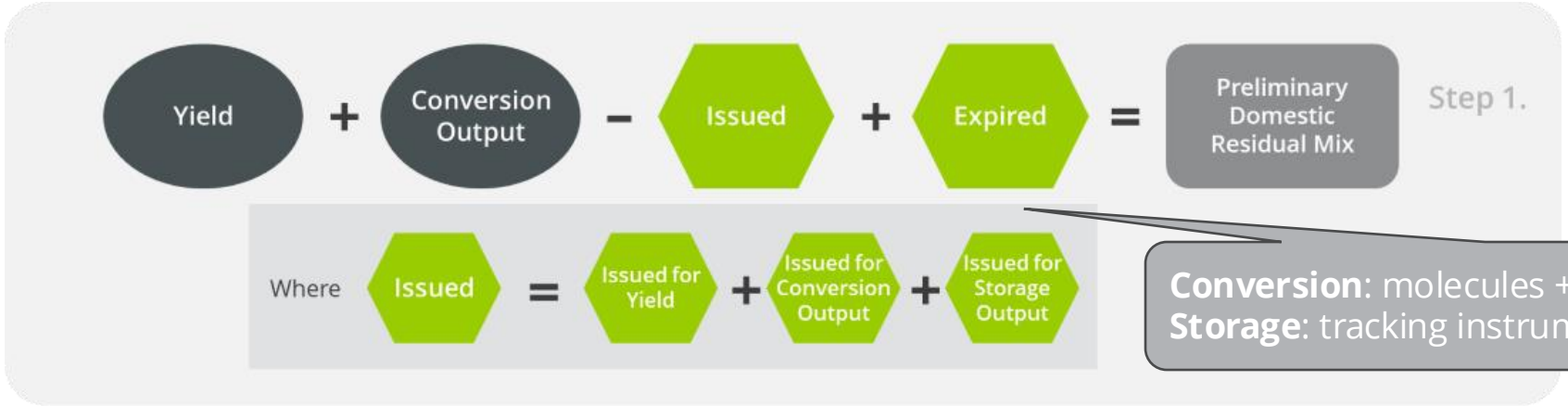
→ Factors in play



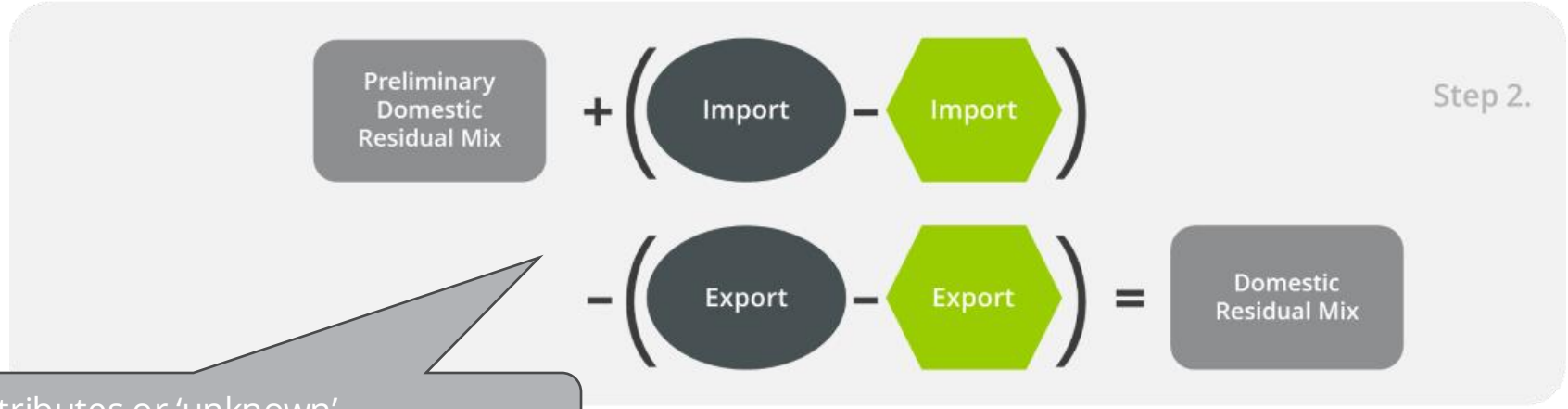
DEFAULT Residual Mix method for gas

→ Residual Mix methodology for **gas**

- Step 1 and 2: how much of the input of gas is not represented by tracking instruments?



Conversion: molecules + tracking instruments
Storage: tracking instruments only



Import: Specified attributes or 'unknown'
Export: Attributes of Preliminary Domestic RM

DEFAULT Residual Mix method for gas

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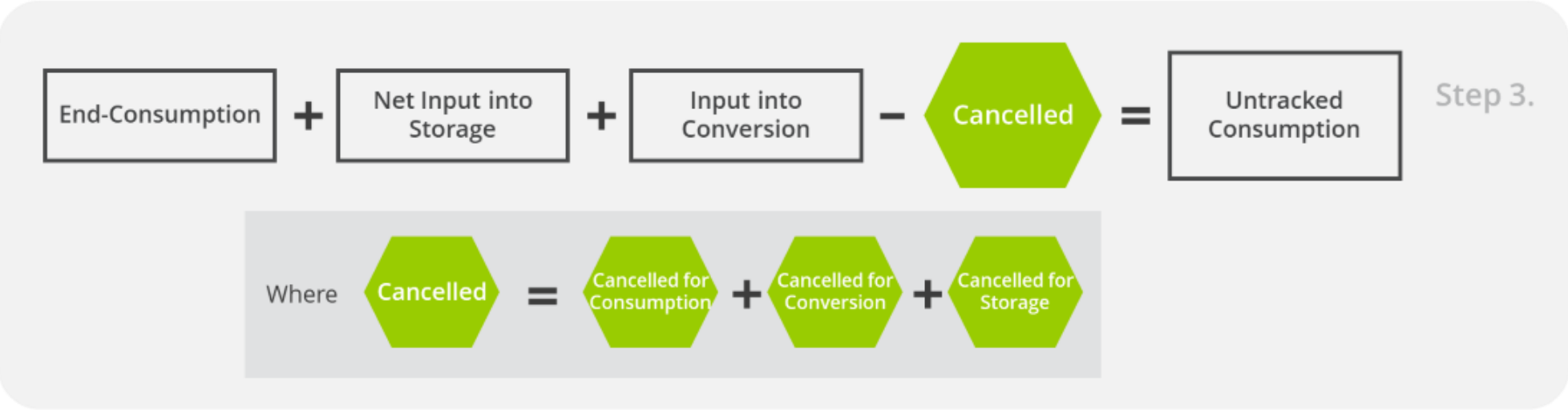
→ Residual Mix methodology for **gas**

- Step 3: how much of the output of gas is not represented by tracking instruments?



DEFAULT Residual Mix method for gas

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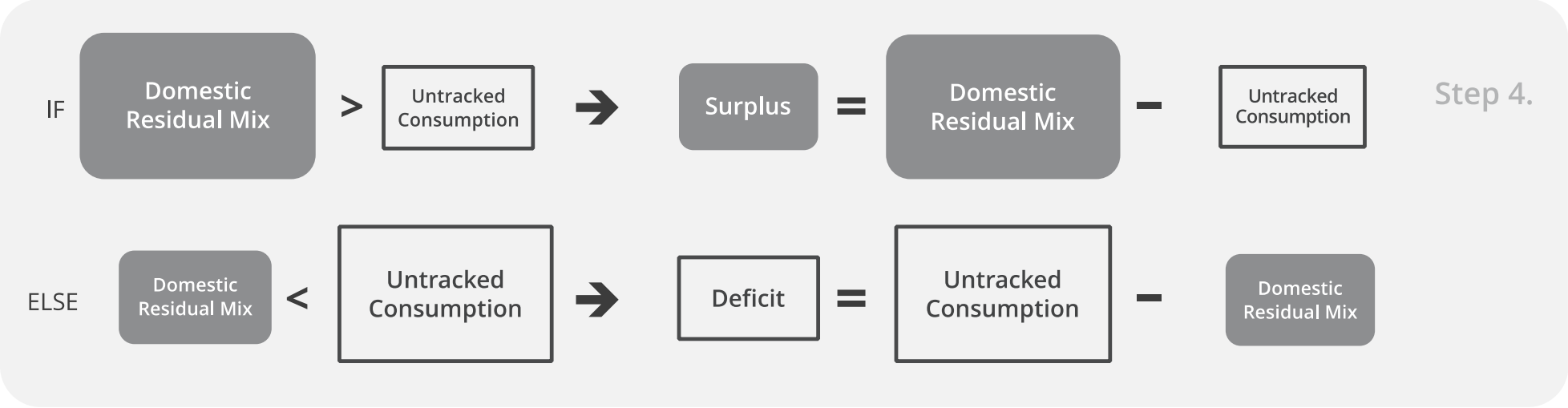
→ Residual Mix methodology for **gas**

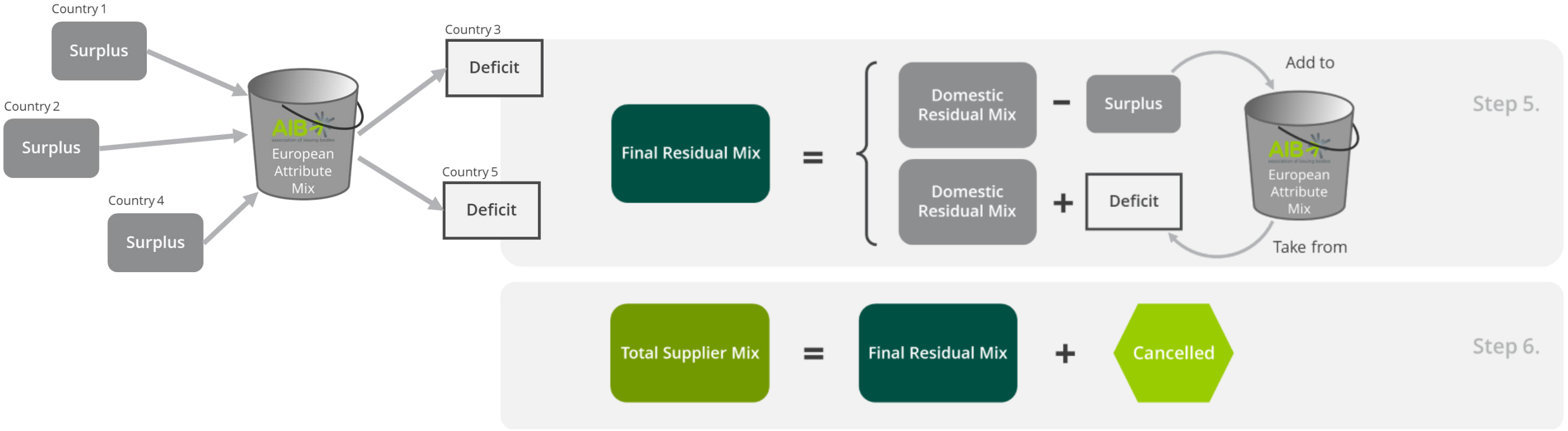
- Step 4: balance of untracked gas per domain



DEFAULT Residual Mix method for gas

→ Residual Mix methodology for **gas**

- Step 5: pooling of surplus of unrepresented Attributes and redistribution to domains with a deficit
- Step 6: calculation of Total Supplier Mix



FALL-BACK Residual Mix method for gas

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→ Hurdles for DEFAULT Residual Mix method for gas

Clarity on instrument for Disclosure

Availability of data sources

Timely publication of input data

→ FALL-BACK Residual Mix method for gas

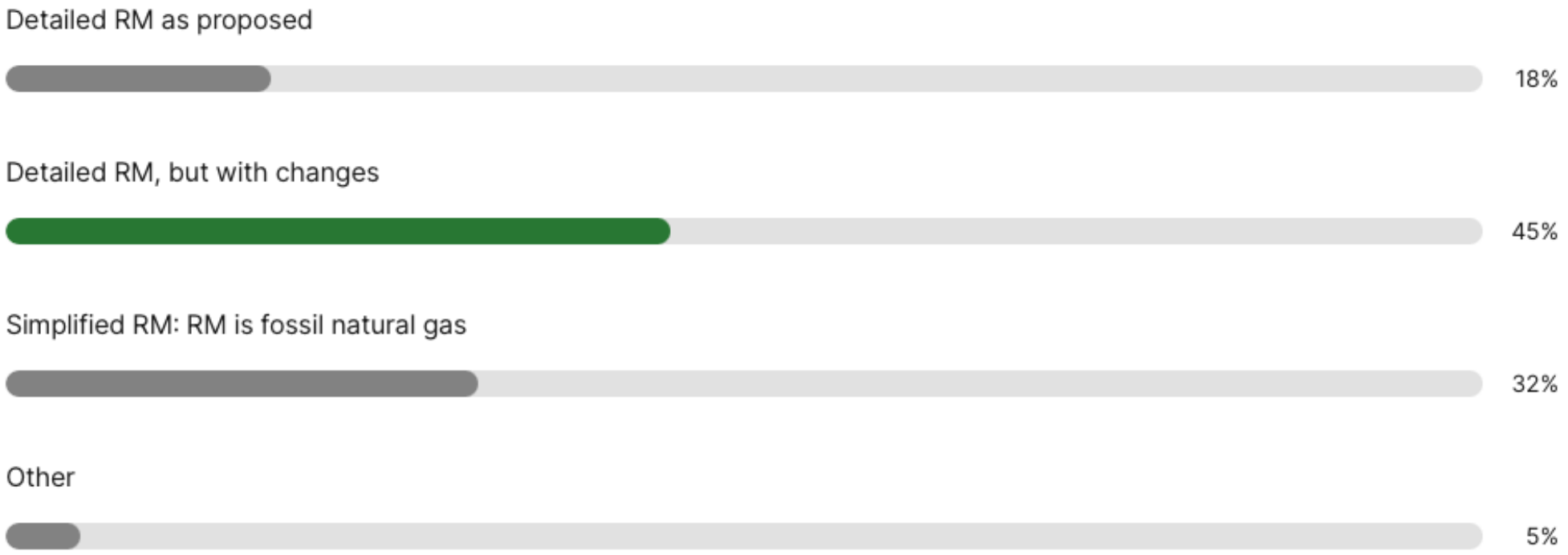
- Residual Mix for gas = **Natural (fossil) gas**

Slido poll results

Multiple choice
22 votes

Poll Settings

Which methodology do you favour for calculating the Residual Mix for gas, on the long term?



+ Add option

Slido poll results

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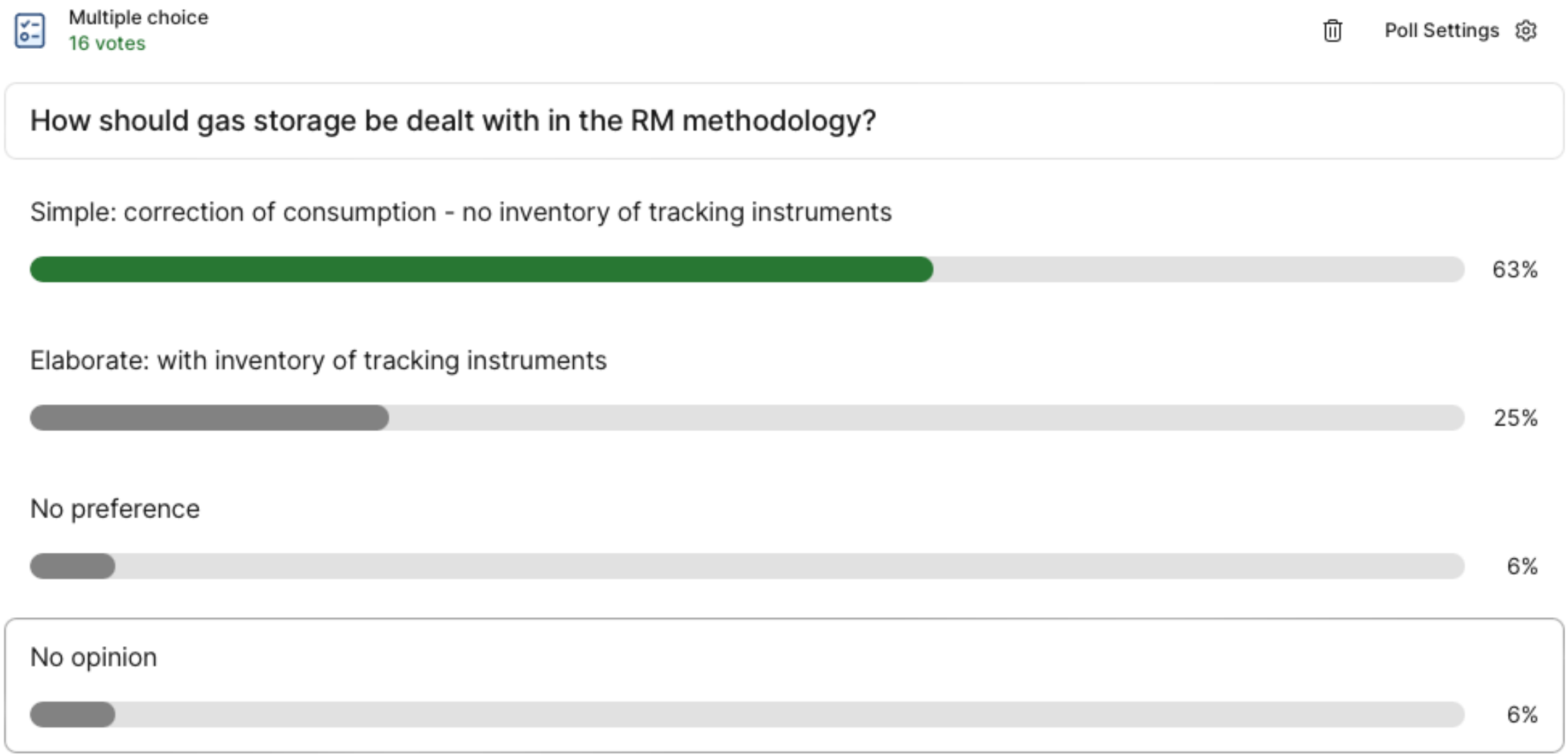

Introduction and outline

REGODISS

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Time	Topic	Who?	Duration
10:00	**WELCOME**	LS	00:05
10:05	Situation and context for the project	HD	00:10
10:15	Project overview	KV	00:05
10:20	Template overview GO and Disclosure as support for national supervisory disclosure authorities	AT	00:10
10:30	Overview of gas GO and disclosure implementation in national contexts	BvdH	00:10
10:40	Instruments for Gas Disclosure: EU Legal requirements and interaction with other tracking frameworks	KV	00:20
11:00	Q&A	All	00:20
11:20	**BREAK**		00:15
11:35	Residual Mix method for electricity	MK	00:10
11:45	Draft Residual Mix method for gas	ErC	00:15
12:00	System Boundaries	KV	00:10
12:10	Data sources and availability	ErC	00:10
12:20	Consultation on methodology	BvdH	00:10
12:30	Q&A	All	00:30
13:00	**CLOSE**		

→ Moderation: Katrien Verwimp (Project Leader)

11

System Boundaries

Katrien VERWIMP

REGADISS Project Leader

System boundaries for the RM

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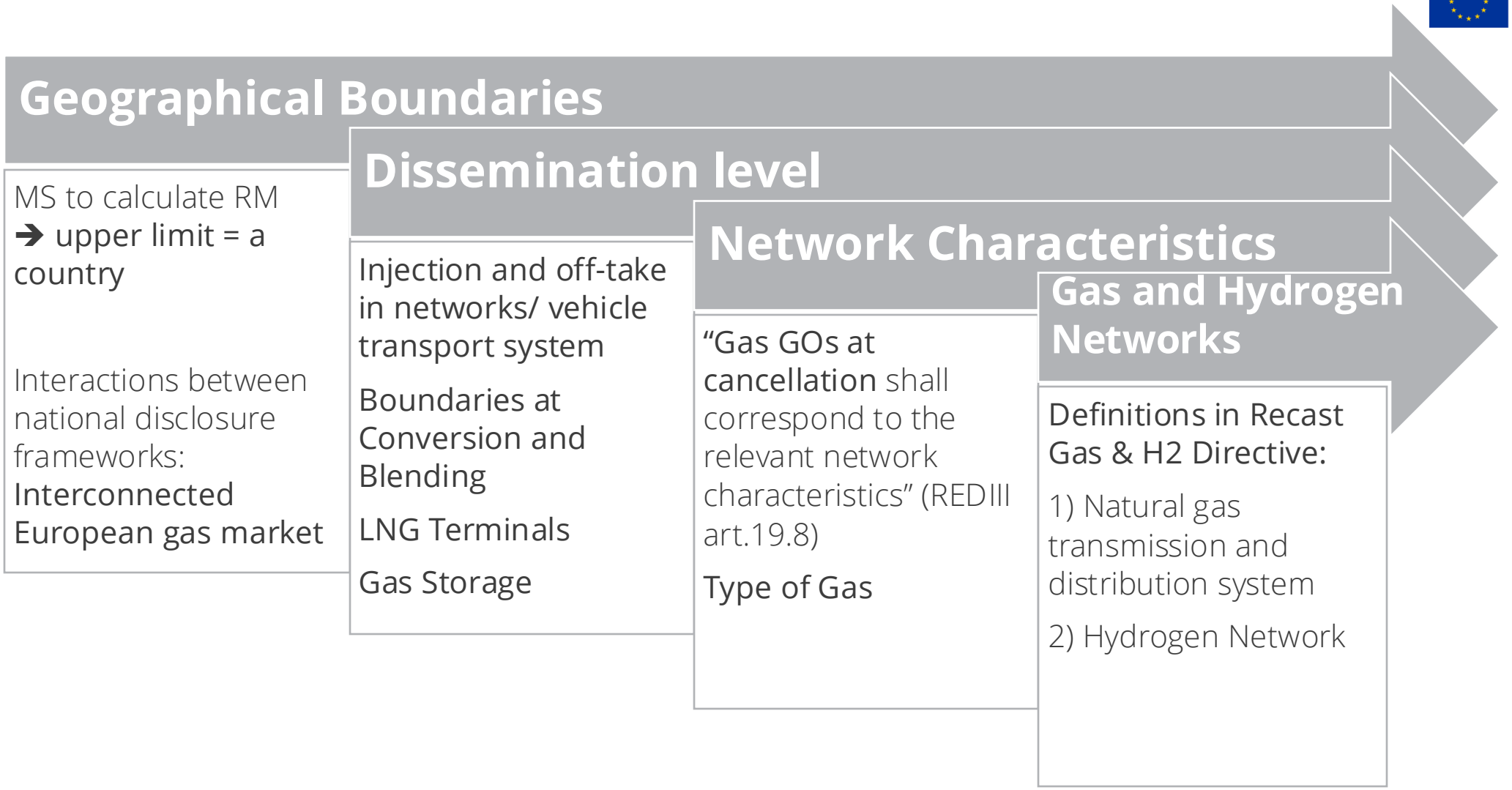

Proposal for system boundaries: Natural Gas Network / Hydrogen Network / Vehicle transport

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→ Moderation: Katrien Verwimp (Project Leader)

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Data Sources and Availability

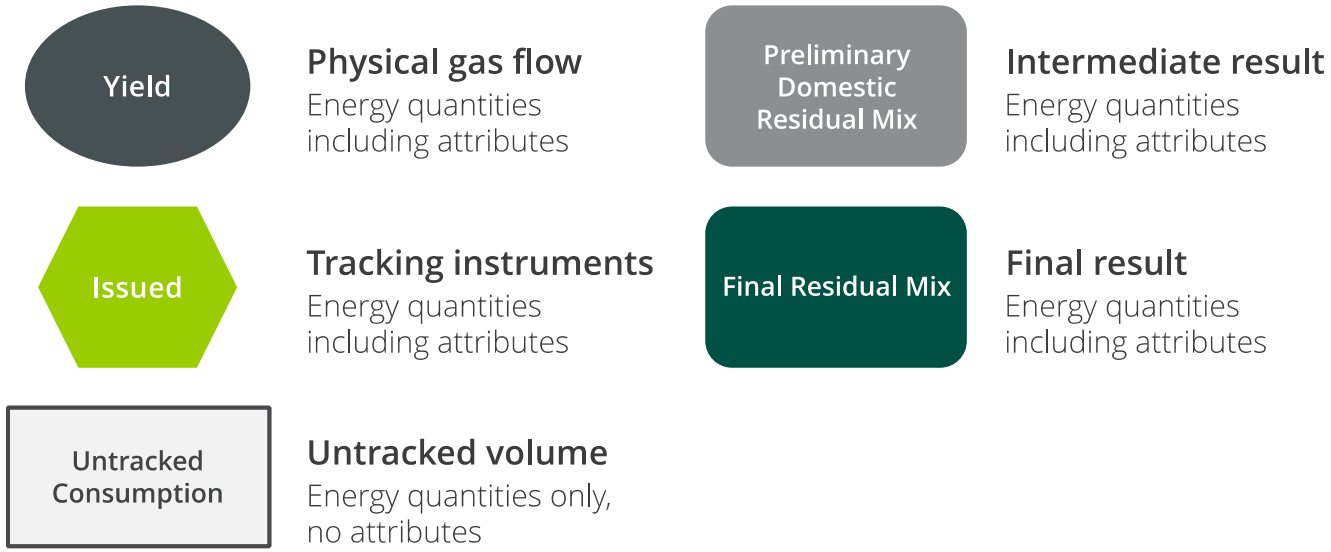
Erwin CORNELIS

Senior Expert Energy Policies

Default Residual Mix method for gas

→ Factors in play

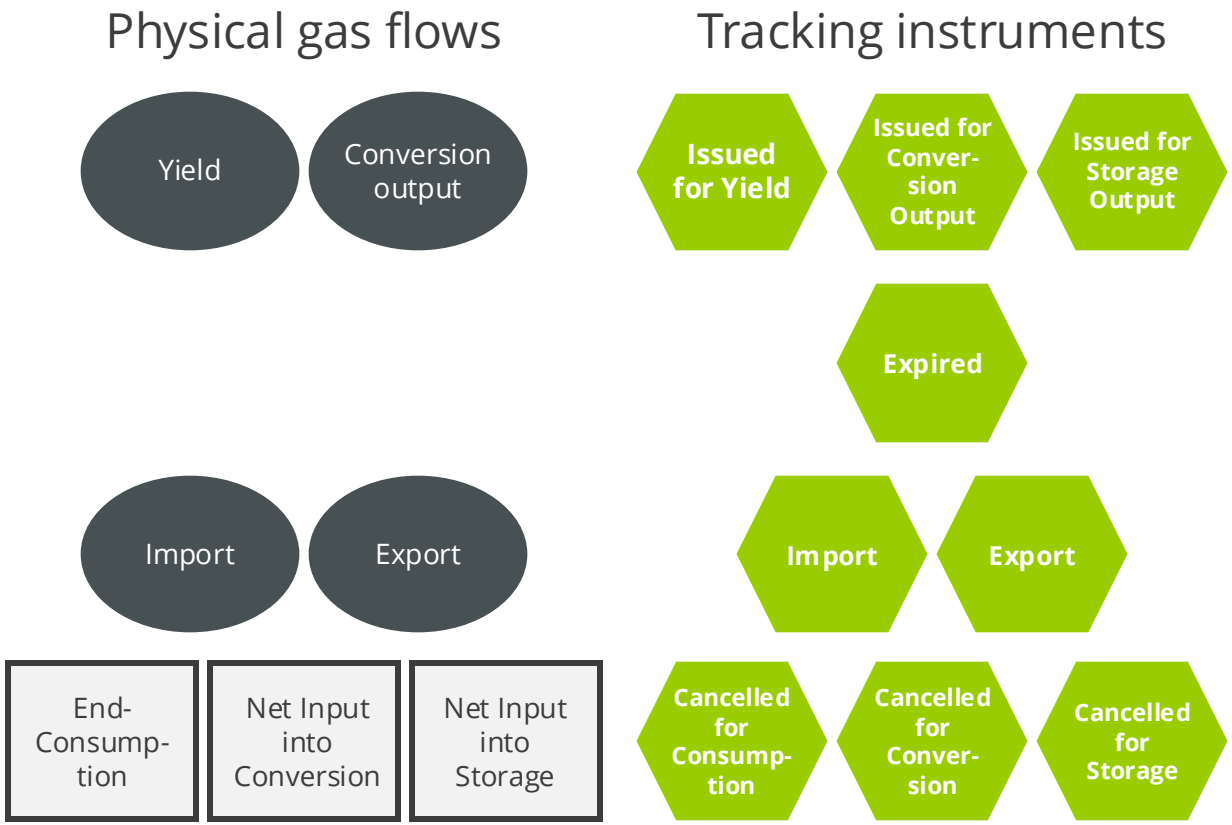
Legend



Factor	Year	Domain	Attributes
Physical flow data	x	x	x
Tracking instruments	x	x	x
Untracked volumes	x	x	

Default Residual Mix method for gas

→ Factors in play: overview



Data sources for METHANE

Physical flows	**EUROSTAT** Supply, transformation, and consumption of Gas – monthly data	**IEA** Monthly Gas Data Service	**GIE** Aggregated Gas Storage Inventory	**European Biogas Association** Statistical Report
Gas type	Natural gas	Natural gas	Natural gas	Biogas / -methane
Yield	X	X		X
Import	X	X		X
Export	X	X		X
Storage	X	X	X	
Consumption	X	X		X
Time granularity	Monthly	Monthly	Daily	Annual
Geogr. coverage	EU27	22 MS	EU27	22 MS
Available after	3,5 months	2 months	1 day	11 months
Cost	Free	Report: free Database: 930€	Free	Policy makers: free Others: 2067€

Data sources for METHANE

Tracking instru-ments	**EECS®** Guarantees of Origin	**ERGaR** Certificates of Origin	**Union Database** Proof of Sustainability
Gas type	Biogas/ -methane	Biogas / -methane	Biogas / -methane
Issued	X		X
Import	X	X	
Export	X	X	
Expire	X		
Cancelled	X		X
Time granularity	Monthly	Quarterly	Monthly
Geogr. coverage	5 MS	6 MS	EU27
Available after	(not yet)	2 months	(not yet)
Cost		Free	

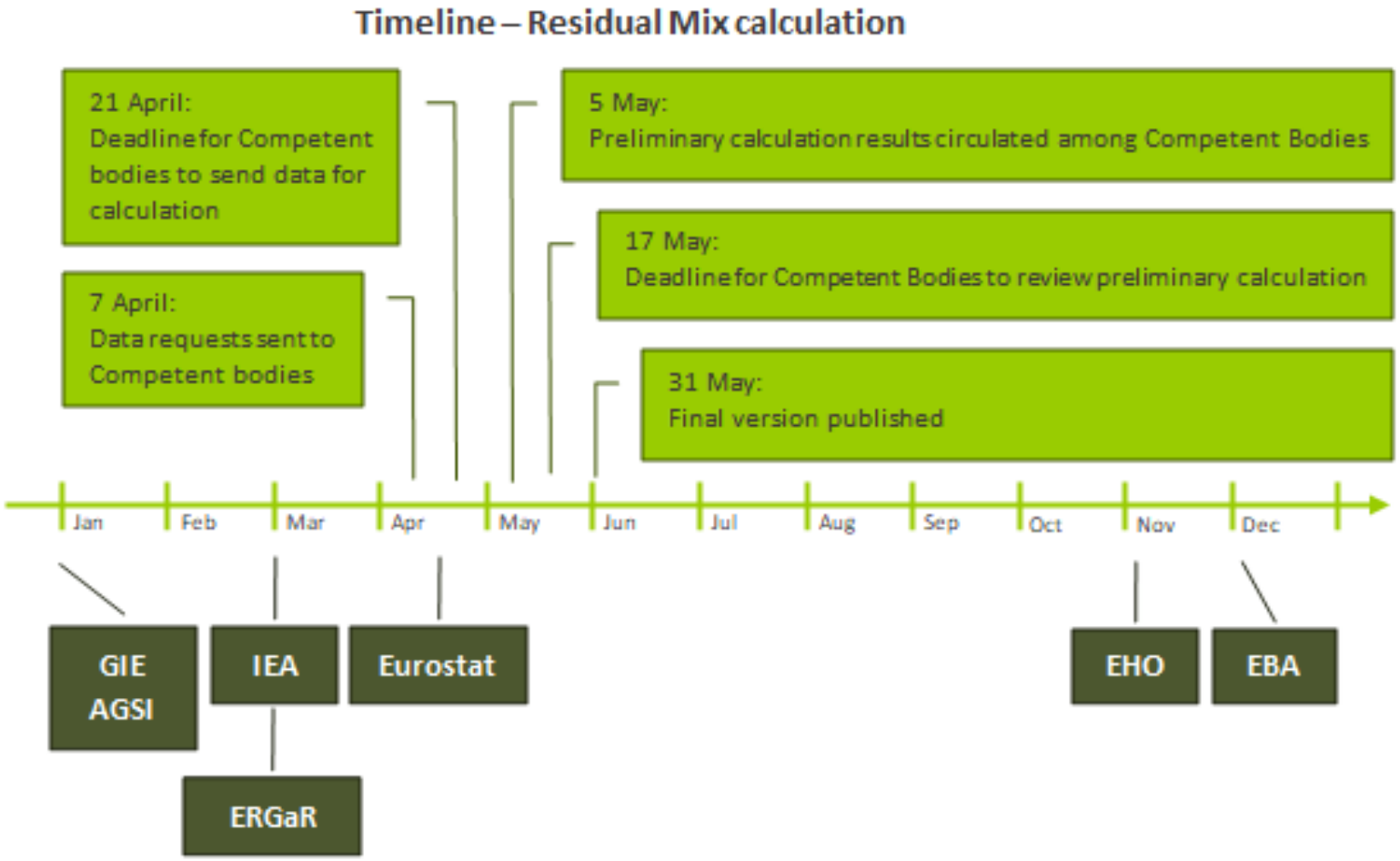
Data sources for HYDROGEN

Physical flows	EU Hydrogen Observatory Statistical reports
Gas type	All sources
Yield	X
Import	X
Export	X
Storage	
Consumption	X
Time granularity	Annual
Geogr. coverage	24 MS
Available after	10 months
Cost	Free

Tracking instru-ments	ERGaR Certificates of Origin	Union Database Proof of Sustainability
Gas type	Biogas / -methane	Biogas / -methane
Issued		X
Import	X	
Export	X	
Expire		
Cancelled		X
Time granularity	Quarterly	Monthly
Geogr. coverage	6 MS	EU27
Available after	2 months	(not yet)
Cost	Free	

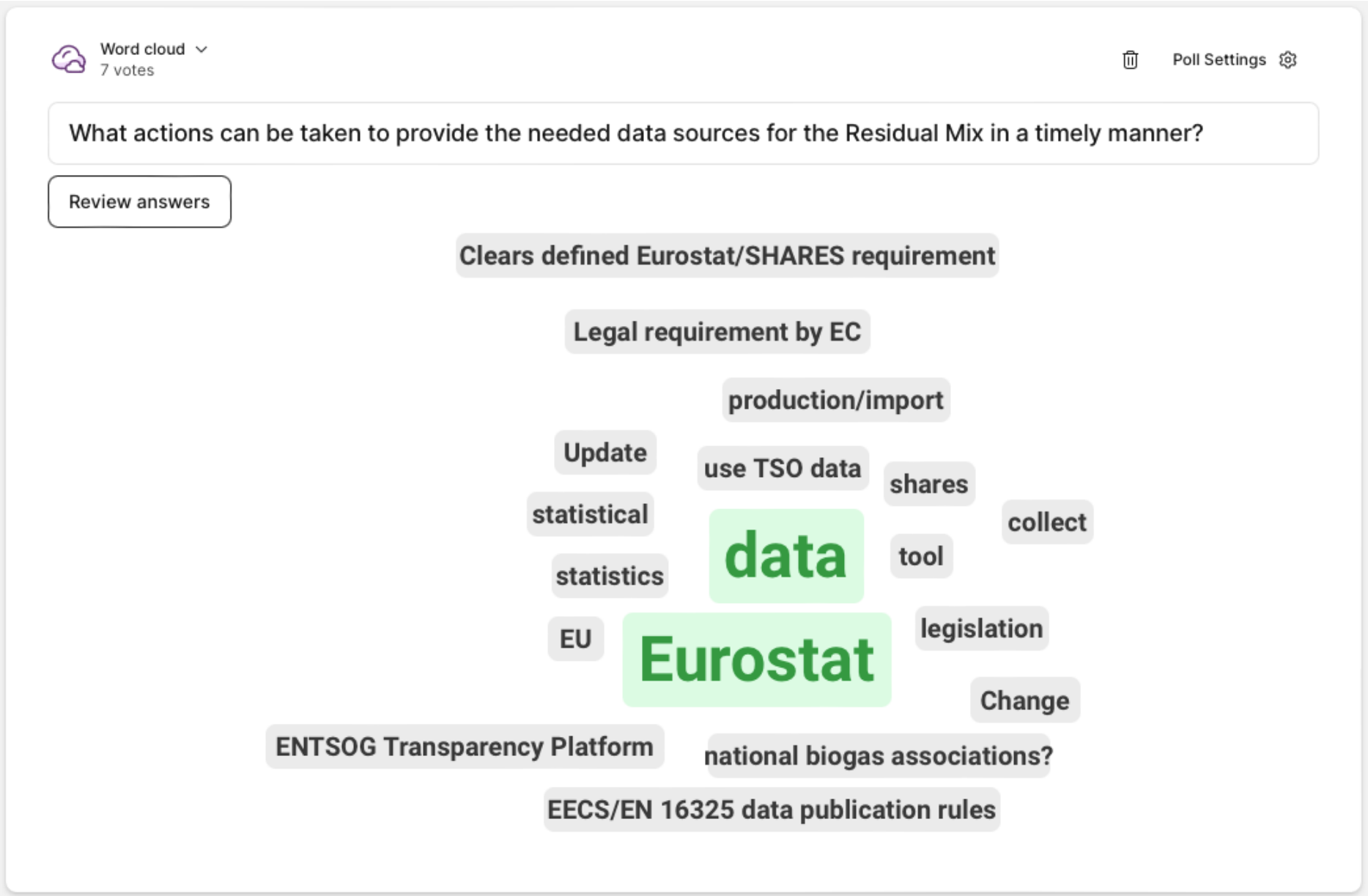
Data sources

→ Timeline – to facilitate fuelmix disclosure to consumers by July 1st



Timeline – availability of data sources – gas

Slido poll results



Data sources

→ Which data sources could you suggest to consider in the Residual Mix calculation?

- Please add your suggestions in our Teams Q&A window as a reply to this question.

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→ Moderation: Katrien Verwimp (Project Leader)

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Consultation on methodology

Bram van der HEIJDE

REGADISS Consultation Lead

Wrapping up - Main consultation question

Consultation on methodology

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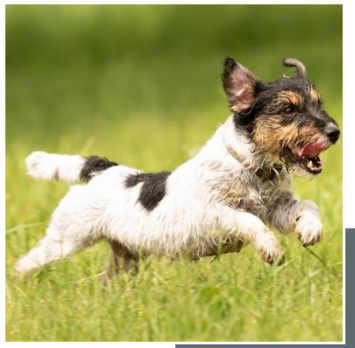
→ Two ways forward

SIMPLIFIED Calculation

- Residual Mix = 100% fossil natural gas
- Does not depend on data accuracy and availability



DETAILED Calculation

- Similar to electricity RM, modified for gas
- More accurate as share of “new” gases increases
- Requires timely data availability

Consultation summary

Consultation on methodology

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Is the **simplified Residual Mix calculation** a good idea?

Is the **detailed Residual Mix calculation** a good idea?

Which of the options do you prefer on the **short/longer term?**

Are there any parts of the proposed methodology that **should be improved?**

Consultation open – Have your say!

Consultation on methodology

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→ **Submit your response here: https://forms.office.com/e/aV0UcyJAKB**
- OR scan QR code

→ Check http://aib-net.org/regadiss for all relevant info
- Consultation brief
- **Download Draft Methodology report**

→ After consultation: brief **consultation report** to be published with main takeaways
- Feedback integrated into Final Report (Task 5) on Residual Mix Methodology

Consultation open until
15 September 2024, midnight

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Q&A

Or go straight to the consultation form

Contact us

www.aib-net.org/REGADISS

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info@aib-net.org

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