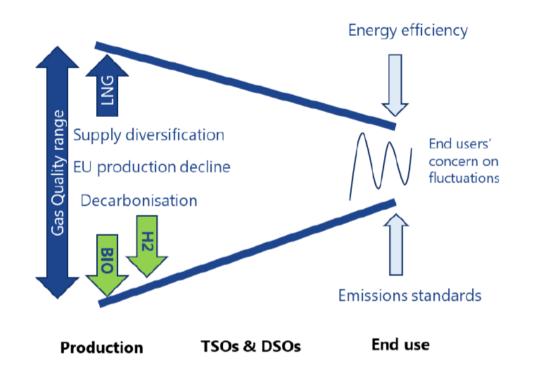


Update on gas quality specifications

26/10/2021



Introduction : an evolving context



- Large variety of WI situations are experienced
 across Europe
- Very few WI issues reported with current situation (NG)
- **<u>BUT</u>** a lot of uncertainties arise for the future due to
 - Diversification of supply sources happening in the context of declining EU production ;
 - $\circ~$ Energy transition and decarbonization goals ;
 - Strengthening emissions standards ;

0 ...

 Producers, operators and end users face some "competing" requirements on gas quality

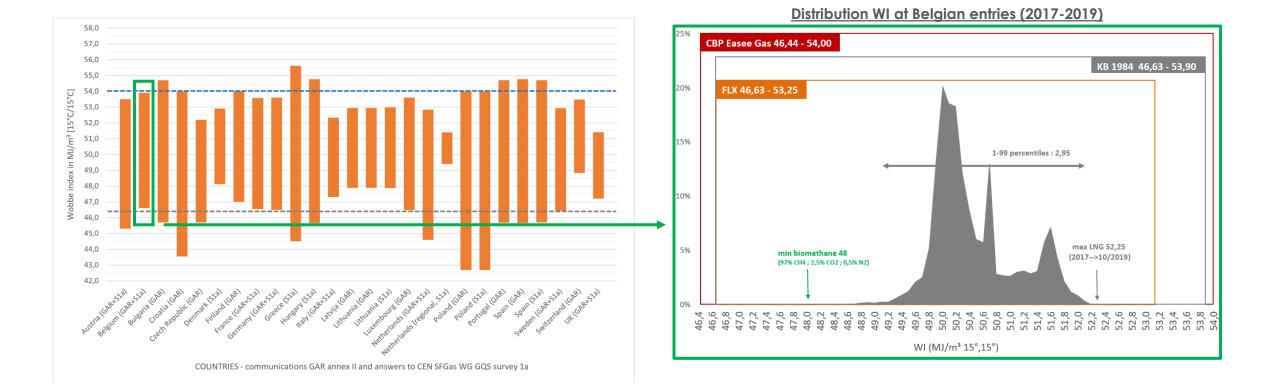
Compromise proposed with a de-coupling of entry and exit WI specifications

CEN Sector Forum Gas – Gas Quality Study : WI specification proposal @ENTRIES



"The WI entry range **should** be within 46,44 and 54,00 MJ/m³"

→ Recommendation

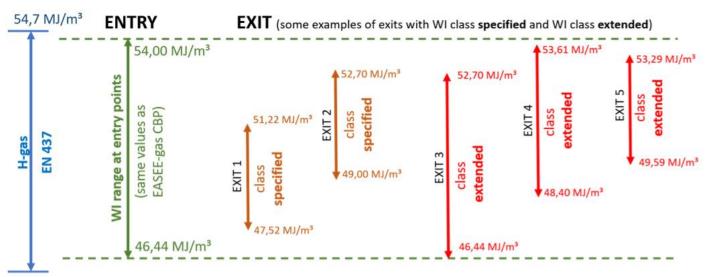


CEN Sector Forum Gas – Gas Quality Study : WI specification proposal @ EXITS supply*

"The distributed gases **shall** be classified according to the following table"

Class	Condition
"Specified"	WI bandwidth \leq 3,7 MJ 98% of the time - WI max \leq 53 MJ/m ³
"Extended"	Any other situation within the WI entry range

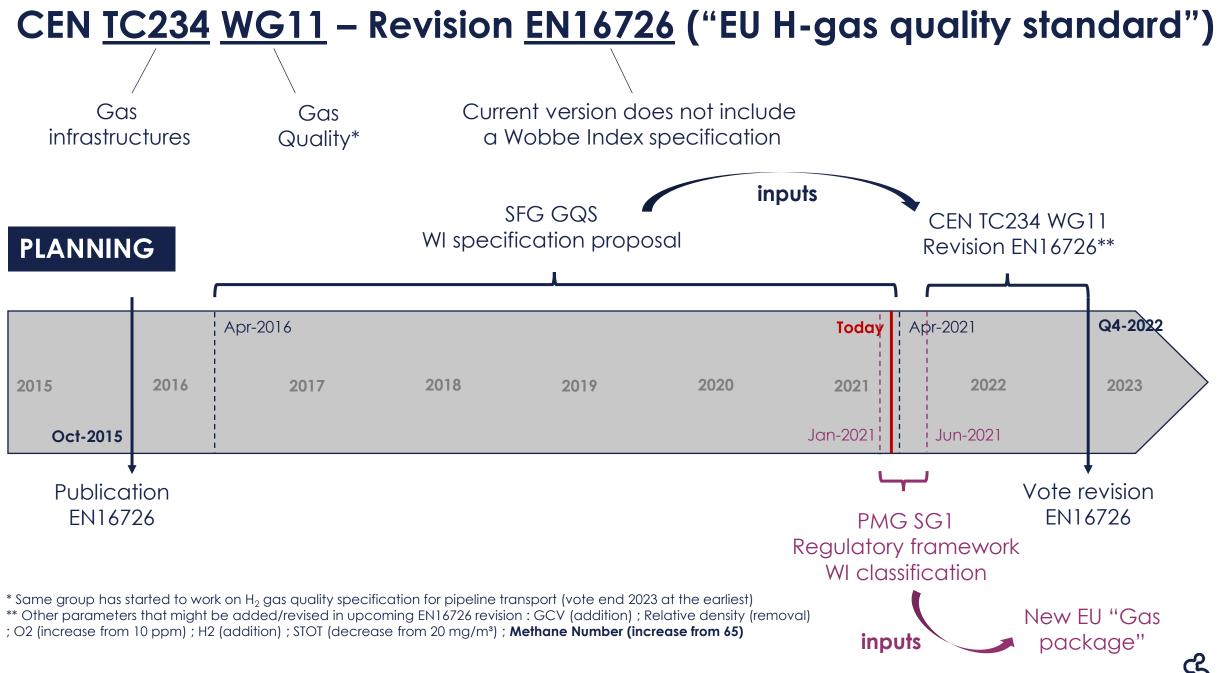
Example of exit classes



➔ Requirement

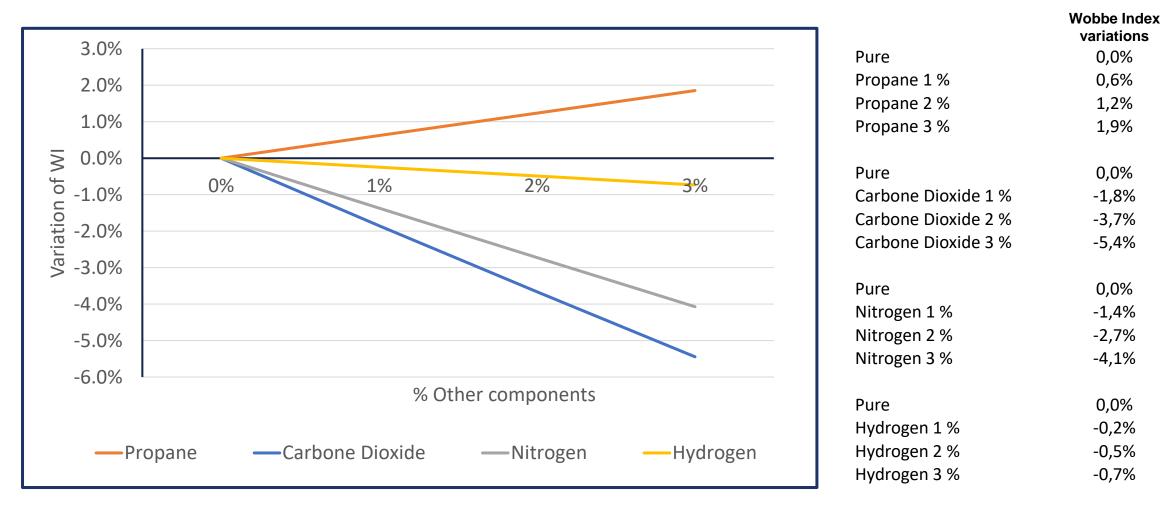
- Proposed classification system allows end users to <u>optimize application</u> <u>settings to a range of WI that will be</u> <u>respected most of the time (>98%)</u>
- If an end user sensitive to the WI gets classified as "extended", mitigation measures might be developed
- <u>No requirements proposed on rate of</u> <u>change</u>, even though it is recognized as a major concern for end users
- Regulatory questions elaborated in another less technical forum, the Prime Movers Group (PMG**), Sub Group 1

* Scope covers exits supply at TSO and DSO level ** Lead by Entsog and DSO associations



20211026 - Masterclasses WKK - Gas quality

Impacts other components on WI methane



- Most efficient way to increase the WI (i.e. for biomethane plant) is to decrease the CO₂ level
- H₂ content variations (between 0 and 2%) will be less impacting in terms of WI and GCV than existing CO₂ content variations (between 0 and 2,5 %)

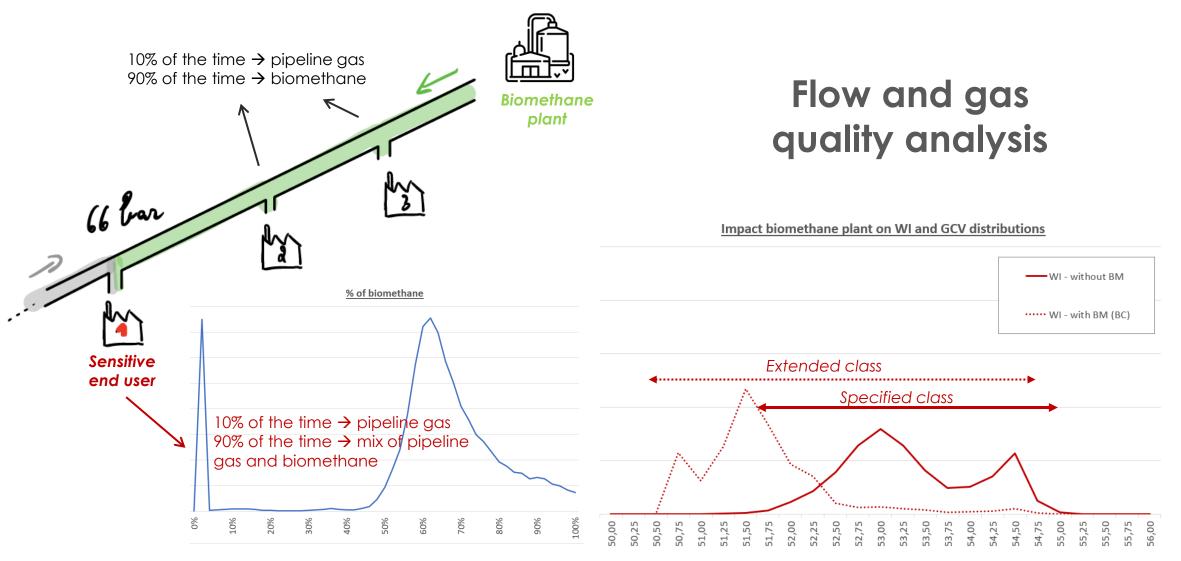
Concluding remarks

- Work on revision EU H-gas quality standard (EN16726) goes forward at CEN level
- There is still a lot of work to do on regulatory framework to implement WI classification system at exits supply, which is considered as a must have before the proposed revision can be submitted to vote.
- Some elements of that regulatory framework are expected to be integrated in upcoming EU decarbonization package
- If voted, the revision of EN16726 standard could be made binding with a reference in the Interoperability Network Code (applicable to TSOs)
- Fluxys Belgium is currently holding a market consultation that includes a revision of its gas quality specifications → addition of <u>up to 2% H₂ in the Natural Gas</u>

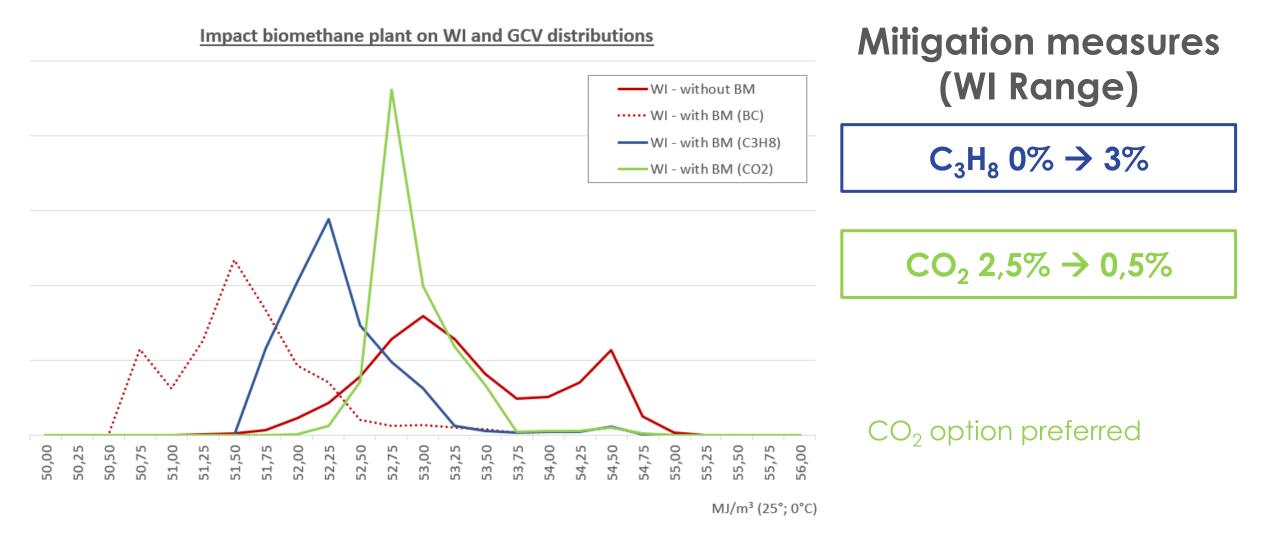
Backup slides



Case study



Case study





Short Update on Certification for Green gasses in BE





What kind of certification needs to be set-up by EU

Guarantees of Origin art. 19 RED II

- not for targets or support
- No Sustainability
- Book & Claim
- No GHG reduction

Regional authorities (VREG, SPW, Brugel)

Due date 1 July 2021 → Flanders compliant

Renewable certificates Transport art.25 – 30 RED II

- For transport fuel targets (14% energy, 6% GHG reduction)
- With Sustainability
- In Mass balance
- GHG reduction must be 70% vs 94gCO2/MJ

Federal authorities (FOD health, FOD energ

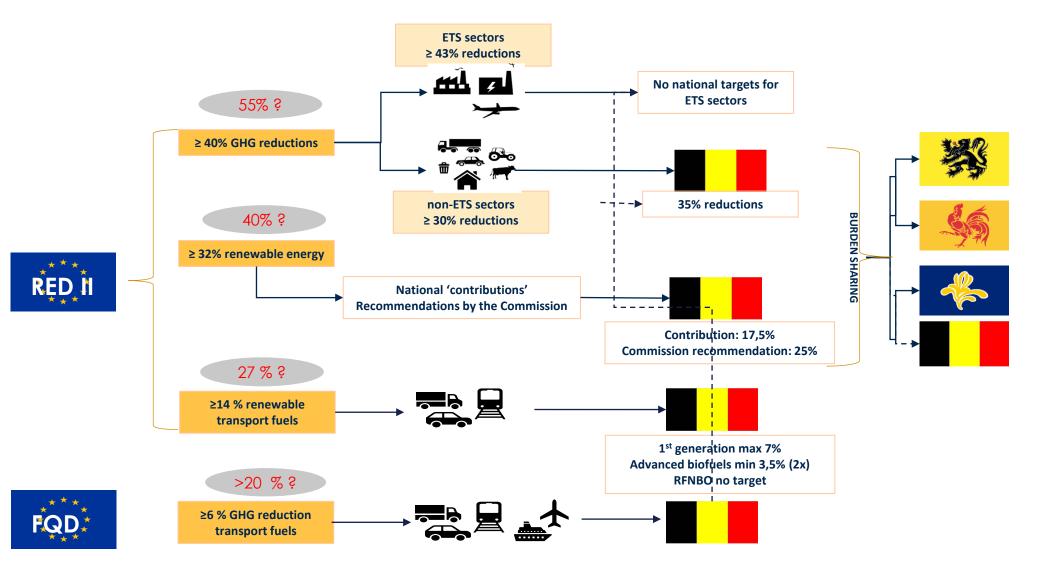
Due date 1 July 2021 → Transport fuel laws in revision Renewable certificates ETS art.25 – 30 RED II

- For ETS purposes
- With proof of purchase
- With Sustainability
- In Mass balance
- GHG reduction must be 70% vs 94gCO2/MJ

Regional authorities (VEKA, AWAC, ...)

Due date 1 Jan 2022 → VEKA procedure will be ready

Overview of current RED II targets \rightarrow increase in Draft RED III



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Important revision by EU

Guarantees of Origin: no changes (RED III)

Renewable Transport fuels: revision in RED III (= RED II recast)

- Increase to 27 % ?? energy (draft RED III)
- Increase to > 20% ?? (draft Fuel Quality Directive)
- RTFNBO's \rightarrow additionality, geographical and temporal link (draft Delegated Acts)
- No more double counting (draft RED III)
- Minimum taxation for fossil transport fuels (draft ETD)

ETS: current MRR in force 1/01/2021 but new revision in FIT for 55

- Introduction of Hydrogen (draft revised MRR II)
- ETS broadened \rightarrow Aviation, Ships under ETS ??

UNION Database (due date 2023 ??)

- For all target related proofs (transport fuels, ETS, ...) a union database will be center of certification (not GO system)

Thank you for your attention

