

[REDACTED] (CLIMA)

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**From:** [REDACTED] (CLIMA)  
**Sent:** mardi 28 mai 2019 18:42  
**To:** [REDACTED] (CLIMA); [REDACTED] (CLIMA); [REDACTED] (CLIMA); RUNGE-METZGER Artur (CLIMA); YORDI Beatriz (CLIMA); SLINGENBERG Yvon (CLIMA); [REDACTED] (CLIMA); [REDACTED] (CLIMA)  
**Subject:** Debrief meeting Mauro-ENTSOG

Dear all,

Below a small debrief of the meeting Mauro had yesterday with ENTSOG (network of gas TSOs).

[REDACTED]

Participants

[REDACTED] ENTSOG [REDACTED]  
[REDACTED]

ENTSOG starting point is that they feel there was not so much on gas in the Clean Energy Package and they believe some further discussions are needed. They find that the issues are to some extent reflected in the LTS. They are in favour of a “big” gas package, not just focused on security aspects.

They are working on their Ten Year Network Development Plan (TYNDP) together with the sister organisation on electricity (ENTSOE).

They have developed an internal vision on decarbonisation, to ensure that they transmission networks are able to carry biogas, hydrogen either pure or mix, etc. They seem to have a good understanding of the long term goal and the issues during the transition.

Replying a question from Mauro, they see the current infrastructure as quite versatile (even if some places materials would need to be replaced). They gave the example of Germany (network able to transport a mix of 20% of hydrogen, to be increased to 30%), UK (converting city gates), NL (converting pipelines to full hydrogen).

In terms of technology development, they mentioned Russia working on gas cracking to decarbonise gas (with the resulting black carbon easier to store than CO<sub>2</sub>, for example in concrete).

They also mentioned the possibility of “neutral infrastructure”(with sensors etc to measure the energy content), but the “climate layer “ would need to be developed (for example remuneration based on certificates of origin).

They are working on a better wording for blue hydrogen.

Mauro encouraged them to come back when they have progressed on the issues of terminology and certification.

They mentioned a workshop on 2<sup>nd</sup> July at 13:00, hosted by EPSC and DG ENER on “Roadmap for Decarbonised Gas Grids and European Hybrid Energy Infrastructure”.

Neither Mauro nor me had heard about it, but in the meantime, I have found the calendar invite, Artur, [REDACTED] have received the invitation so we will be represented.