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**Sent:** vendredi 20 mai 2022 16:51  
**To:** CAB VON DER LEYEN ARCHIVES  
**Cc:** [REDACTED] (CAB-VON DER LEYEN)  
**Subject:** FW: Ref. our conversation in Esbjerg about Offshore Hydrogen  
**Attachments:** AquaDuctusShortStudy\_Summary\_ENG\_v110.pdf;  
AquaDuctusShortStudy\_OffshoreHydrogenProduction\_v120\_EN.pdf

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**Sent:** Friday, May 20, 2022 4:41 PM  
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**Subject:** Ref. our conversation in Esbjerg about Offshore Hydrogen

Dear President of the Commission, dear Mrs. Von der Leyen,

Thank you very much again for our conversation in Esbjerg on the potential of offshore wind. We briefly touched upon offshore hydrogen production and energy transportation via pipeline, and as you requested, let me please briefly summarize:

- 1) A single pipeline can transport 10 GW of electrolyser capacity output. This would eliminate the need for 5 transmission cables.
- 2) Particularly for long distances to shore, energy transport via pipeline has a significant cost advantage. In the German North Sea, the 10 GW pipeline solution can save approximately 6 billion € in comparison to the cable option.
- 3) Laying one pipeline instead of 5 cables has advantages for permitting and environmental impact, especially in sensitive areas as the German Wadden Sea. And it can significantly accelerate the process.

The above effects have been demonstrated in the attached study by global consultancy AFRY for the "AquaVentus Initiative"

In summary, offshore production of green hydrogen and transport to shore via pipeline, is advantageous in certain geographies due to:

- Cost reduction
- Acceleration
- Reduction of environmental impact

And a hydrogen pipeline can serve as a nucleus for a European hydrogen backbone interconnector.

This is not to say that all future hydrogen production should or could be offshore. But it provides a specific case in parts of the North Sea.

I am at your disposal for any further questions or discussion.

Best regards,

[Redacted]

Mit freundlichen Grüßen/With kind regards

[Redacted]

[Redacted] Offshore Wind

[Redacted]

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