Demand assessment report regarding hydrogen transmission on IP Šempeter

Plinovodi d.o.o.

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This report is conducted by

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A. Non-binding Demand indications

The transmission systems operator Plinovodi conducting this market demand assessment report gave network users the opportunity to submit non-binding demand indications to quantify potential demand referred to hydrogen transmission. The period for submission the demand indications on the Slovenian entry-exit system was from 3 July to 28 August 2023.

The following table show indications of non-binding demand for firm unbundled capacity referred to hydrogen transmission per Šempeter Entry IP in direction from Italy to Slovenia and Šempeter Exit IP in direction from Slovenia to Italy, which were received by Slovenian TSO Plinovodi within the 8 weeks above:

From ***[entry-exit system name]*** ***"EXIT CAPACITY"***	***To*** ***[entry-exit system name]*** ***"ENTRY CAPACITY"***	***Gas year*** ***[yyyy/yy]***	***Amount**** ***[Please indicate unit: (kWh/h)/y or (kWh/d)/y]***	***Request is submitted to both TSOs*** ***[yes] or [no] (detailed information shall be provided below)***	***Additional Information*** ***(e.g. type of capacity, if different from bundled firm freely allocable)***
SRG	***Plinovodi***	*2025/26*	*1,200,000*	*No*	*Unbundled demand*
SRG	***Plinovodi***	*2026/27*	*1,200,000*	*No*	*Unbundled demand*
SRG	***Plinovodi***	*2027/28*	*1,200,000*	*No*	*Unbundled demand*
Plinovodi	*SRG*	*2025/26*	*1,200,000*	*No*	*Unbundled demand*
Plinovodi	*SRG*	*2026/27*	*1,200,000*	*No*	*Unbundled demand*
Plinovodi	*SRG*	*2027/28*	*1,200,000*	*No*	*Unbundled demand*

*unit is (kWh/day)/y (GCV:3,54 kWh/Nm^3 (0°C))

B. Demand assessment

The received demand indications within the above period are only on the Slovenian system and for a limited period. This period lies before the intended establishment of a hydrogen IP with Italy (Gorizia/Šempeter) which is planned from approximately 2035 onwords, making this demand indication not sufficient to develop any capacity in regards to hydrogen ready pipelines.

Plinovodi have also developed some projects regarding the interconnection point Šempeter/Gorizia and included them in their National NDPs and ENTSOG TYNDP.

Project IT-SI-HU H2 corridor is a part of ENTSOG TYNDP 2022 as a new supply route for hydrogen and will connect three neighbouring countries: Italy, Slovenia and Hungary. The project intends to become a part of hydrogen backbone establishing a hydrogen interconnection with the Italian system in the next stage from approximately 2035 onwards. Increased interest in domestic hydrogen production and consumption in all three countries is expected since this project will enable access to the hydrogen transmission system and allow export and import of hydrogen. Project will establish two new hydrogen IPs: Italy- Slovenia and Hungary- Slovenia.

Gorizia/Šempeter interconnection point (IP) is currently used only for transmission of gas.

Further Market Demand Assessment will be performed periodically depending on TSO decision.

C. Conclusion

According to the assessment result of the non-binding demand indications under point B, no capacity project will be initiated. Based on the aforementioned decision, no technical studies for capacity projects will be conducted, however Plinovodi will continue to develop the Project in line with the National NDPs and ENTSOG TYNDP.

D. Contact information

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