



**Demand assessment report
regarding hydrogen transmission between
Plinovodi d.o.o. and *Gas Connect Austria GmbH***

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This report is a joint assessment conducted by

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A. Non-binding Demand indications

The transmission systems operators 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 on both sides of the border between the Slovenian entry-exit system and the Austrian entry-exit system (Market Area East) was from 3 July to 28 August 2023. Within this period, no non-binding demand indications for hydrogen transmission regarding the respective border were received by the Austrian TSO GCA.

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

From [entry-exit system name] “EXIT CAPAC- ITY”	To [entry-exit system name] “ENTRY CA- PACITY”	Gas year [yyyy/yy]	Amount* [Please indi- cate unit: (kWh/h)/y or (kWh/d)/y]	Request is submit- ted to both TSOs [yes] or [no] (detailed information shall be provided be- low)	Additional In- formation (e.g. type of ca- pacity, if differ- ent from bun- dled firm freely alloca-ble)
GCA	Plinovodi	2025/26	1,200,000	No	Unbundled demand
GCA	Plinovodi	2026/27	1,200,000	No	Unbundled demand
GCA	Plinovodi	2027/28	1,200,000	No	Unbundled demand

*unit is (kWh/day)/y (GCV:3,54 kWh/Nm³ (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 Austria (Ceršak/Murfeld) which is planned from approximately 2035 onwards, making this demand indication not sufficient to develop any capacity in regards to hydrogen ready pipelines.

Both TSOs have developed projects regarding the interconnection point Murfeld/Ceršak and included them in their National NDPs and ENTSO TYNDP.

Project HR-SI-AT H2 corridor (“Project”) is a part of ENTSOG TYNDP 2022 and involves repurposing of the existing natural gas main pipeline for use with hydrogen. Repurposed pipeline will allow transport of natural gas - hydrogen blends as well as pure hydrogen. Parallel natural gas counterparts of repurposed main pipeline will remain in function as natural gas pipelines. Repurposed pipeline will be connected with planned new hydrogen ready pipelines and together they will enable hydrogen transit between all neighbouring countries. This Project is a crucial part of the hydrogen network, which would enable hydrogen transit across Slovenian territory and hydrogen supply to Slovenia from approximately 2035 onwards. The Project will establish two new hydrogen IPs: Austria (Murfeld)- Slovenia (Ceršak) and Croatia (Rogatec)- Slovenia (Rogatec).

Murfeld/Ceršak interconnection point (IP) is currently used only for transmission of gas.

Further Market Demand Assessment will be performed periodically depending on TSOs’ 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 both TSOs will continue to develop the Project in line with their National NDPs and ENTSOG TYNDP.

D. Contact information

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