



**Demand assessment report
regarding hydrogen transmission between
Plinovodi d.o.o. and *Plinacro Ltd.***

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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 Croatian side was from 4 July to 29 August 2023 and on Slovenian side from 3 July to 28 August 2023. Within this period, non-binding demand indications for hydrogen transmission regarding the respective border were received by both TSOs.

The following table show indications of non-binding demand for firm capacity referred to hydrogen transmission 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 (kWh/day)/y) (GCV:3,54 kWh/Nm ³ (0°C))	Request is submitted to other TSOs [yes, TSO] or [no] (detailed information shall be provided below)	Additional Information (e.g. type of capacity, if different from bundled firm freely allocable)
<i>Plinacro</i>	<i>Plinovodi</i>	<i>2025/26</i>	<i>1,200,000</i>	<i>Yes</i>	<i>Bundled</i>
<i>Plinacro</i>	<i>Plinovodi</i>	<i>2026/27</i>	<i>1,200,000</i>	<i>Yes</i>	<i>Bundled</i>
<i>Plinacro</i>	<i>Plinovodi</i>	<i>2027/28</i>	<i>1,200,000</i>	<i>Yes</i>	<i>Bundled</i>
<i>Plinovodi</i>	<i>Plinacro</i>	<i>2025/26</i>	<i>1,200,000</i>	<i>Yes</i>	<i>Bundled</i>
<i>Plinovodi</i>	<i>Plinacro</i>	<i>2026/27</i>	<i>1,200,000</i>	<i>Yes</i>	<i>Bundled</i>
<i>Plinovodi</i>	<i>Plinacro</i>	<i>2027/28</i>	<i>1,200,000</i>	<i>Yes</i>	<i>Bundled</i>

The following table show indications of non-binding demand for firm capacity referred to hydrogen transmission received by Croatian TSO Plinacro within the 8 weeks above:

From [entry-exit system name] “EXIT CAPACITY”	To [entry-exit system name] “ENTRY CAPACITY”	Gas year [yyyy/yy]	Amount (kWh/day)/y) (GCV:3,54 kWh/Nm ³ (0°C))	Request is submitted to other TSOs [yes, TSO] or [no] (detailed information shall be provided below)	Additional Information (e.g. type of capacity, if different from bundled firm freely allocable)
Plinacro	<i>Plinovodi</i>	<i>2025/26</i>	<i>1,200,000</i>	<i>Yes</i>	<i>Bundled</i>
Plinacro	<i>Plinovodi</i>	<i>2026/27</i>	<i>1,200,000</i>	<i>Yes</i>	<i>Bundled</i>
Plinacro	<i>Plinovodi</i>	<i>2027/28</i>	<i>1,200,000</i>	<i>Yes</i>	<i>Bundled</i>
<i>Plinovodi</i>	Plinacro	<i>2025/26</i>	<i>1,200,000</i>	<i>Yes</i>	<i>Bundled</i>
<i>Plinovodi</i>	Plinacro	<i>2026/27</i>	<i>1,200,000</i>	<i>Yes</i>	<i>Bundled</i>
<i>Plinovodi</i>	Plinacro	<i>2027/28</i>	<i>1,200,000</i>	<i>Yes</i>	<i>Bundled</i>

B. Demand assessment

The received demand indications within the above period between the Slovenian Entry-exit system and the Croatian entry-exit system were provided for limited period. This period lies before the intended establishment of a hydrogen IP with Croatia (Rogatec /Rogatec) 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 some projects regarding the hydrogen interconnection point Rogatec and included them in their National TYNDPs and ENTSG TYNDP.

Project HR-SI-AT H2 corridor ("Project") is a part of ENTSG 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, Croatia and Austria from approximately 2035 onwards. The Project will establish two new hydrogen IPs: Austria (Murfeld) - Slovenia (Ceršak) and Croatia (Rogatec) - Slovenia (Rogatec).

Rogatec/Rogatec 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 ENTSG TYNDP.

D. Contact information

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