



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

**– External document for publication –**

**22 - 10 - 2025**

This report is a joint assessment conducted by

Plinovodi d.o.o.

FGSZ Ltd.

Cesta Ljubljanske brigade 11b

Tanácsház u. 5.

1000 Ljubljana

8600 Siófok

Slovenia

Hungary

+386 1 5820 700

+ 36-84-312-311

Info@plinovodi.si

info@fgsz.hu



## **Table of contents**

|                                   |   |
|-----------------------------------|---|
| A. Non-binding Demand indications | 4 |
| B. Demand assessment              | 5 |
| C. Conclusion                     | 6 |
| D. Contact information            | 7 |

## A. Non-binding Demand indications

The transmission system 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 was from 7 July to 1 September 2025. Within this period, non-binding demand indications for hydrogen transmission regarding the respective border were received by both TSOs.

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

| <i>From</i><br><br><i>[entry-exit<br/>system<br/>name]</i><br><br><i>“EXIT<br/>CAPACITY”</i> | <i>To</i><br><br><i>[entry-exit<br/>system name]</i><br><br><i>“ENTRY<br/>CAPACITY”</i> | <i>Gas year</i><br><br><i>[yyyy/yy]</i> | <i>Amount</i><br><br><i>(kWh/day)</i><br><i>(GCV:3,54<br/>kWh/Nm3 (0°C))</i> | <i>Request is<br/>submitted to<br/>other TSOs</i><br><br><i>[yes, TSO] or<br/>[no]<br/>(detailed<br/>information<br/>shall be<br/>provided<br/>below)</i> | <i>Additional<br/>Information</i><br><br><i>(e.g. type of<br/>capacity, if<br/>different from<br/>bundled firm<br/>freely allocable)</i> |
|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------|------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Plinovodi</i>                                                                             | <i>FGSZ</i>                                                                             | <i>2029/30</i>                          | <i>4.173.120</i>                                                             | <i>Yes</i>                                                                                                                                                | <i>Bundled</i>                                                                                                                           |
| <i>Plinovodi</i>                                                                             | <i>FGSZ</i>                                                                             | <i>2030/31</i>                          | <i>4.173.120</i>                                                             | <i>Yes</i>                                                                                                                                                | <i>Bundled</i>                                                                                                                           |
| <i>Plinovodi</i>                                                                             | <i>FGSZ</i>                                                                             | <i>2031/32</i>                          | <i>4.173.120</i>                                                             | <i>Yes</i>                                                                                                                                                | <i>Bundled</i>                                                                                                                           |
| <i>Plinovodi</i>                                                                             | <i>FGSZ</i>                                                                             | <i>2032/33</i>                          | <i>4.173.120</i>                                                             | <i>Yes</i>                                                                                                                                                | <i>Bundled</i>                                                                                                                           |
| <i>Plinovodi</i>                                                                             | <i>FGSZ</i>                                                                             | <i>2033/34</i>                          | <i>4.173.120</i>                                                             | <i>Yes</i>                                                                                                                                                | <i>Bundled</i>                                                                                                                           |
| <i>Plinovodi</i>                                                                             | <i>FGSZ</i>                                                                             | <i>2034/35</i>                          | <i>5.961.600</i>                                                             | <i>Yes</i>                                                                                                                                                | <i>Bundled</i>                                                                                                                           |
| <i>Plinovodi</i>                                                                             | <i>FGSZ</i>                                                                             | <i>2035/36</i>                          | <i>5.961.600</i>                                                             | <i>Yes</i>                                                                                                                                                | <i>Bundled</i>                                                                                                                           |
| <i>Plinovodi</i>                                                                             | <i>FGSZ</i>                                                                             | <i>2036/37</i>                          | <i>5.961.600</i>                                                             | <i>Yes</i>                                                                                                                                                | <i>Bundled</i>                                                                                                                           |
| <i>Plinovodi</i>                                                                             | <i>FGSZ</i>                                                                             | <i>2037/38</i>                          | <i>5.961.600</i>                                                             | <i>Yes</i>                                                                                                                                                | <i>Bundled</i>                                                                                                                           |
| <i>Plinovodi</i>                                                                             | <i>FGSZ</i>                                                                             | <i>2038/39</i>                          | <i>5.961.600</i>                                                             | <i>Yes</i>                                                                                                                                                | <i>Bundled</i>                                                                                                                           |
| <i>Plinovodi</i>                                                                             | <i>FGSZ</i>                                                                             | <i>2039/40</i>                          | <i>9.936.000</i>                                                             | <i>Yes</i>                                                                                                                                                | <i>Bundled</i>                                                                                                                           |
| <i>Plinovodi</i>                                                                             | <i>FGSZ</i>                                                                             | <i>20NN/NN+1</i>                        | <i>9.936.000</i>                                                             | <i>Yes</i>                                                                                                                                                | <i>Bundled</i>                                                                                                                           |
| <i>Plinovodi</i>                                                                             | <i>FGSZ</i>                                                                             | <i>2049/50</i>                          | <i>9.936.000</i>                                                             | <i>Yes</i>                                                                                                                                                | <i>Bundled</i>                                                                                                                           |

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

| <b>From</b><br><br><i>[entry-exit system name]</i><br><br><b>“EXIT CAPACITY”</b> | <b>To</b><br><br><i>[entry-exit system name]</i><br><br><b>“ENTRY CAPACITY”</b> | <b>Gas year</b><br><br><i>[yyyy/yy]</i> | <b>Amount</b><br><br>(kWh/h)<br>(GCV:3,54 kWh/Nm3 (0°C)) | <b>Amount</b><br><br>(kWh/day)<br>(GCV:3,54 kWh/Nm3 (0°C))<br>Calculated from kWh/h | <b>Request is submitted to other TSOs</b><br><br><i>[yes, TSO] or [no]</i><br><br><b>(detailed information shall be provided below)</b> | <b>Additional Information</b><br><br><i>(e.g. type of capacity, if different from bundled firm freely allocable)</i> |
|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| Plinovodi                                                                        | FGSZ                                                                            | 2029/30                                 | 173.880                                                  | 4.173.120                                                                           | Yes                                                                                                                                     | -                                                                                                                    |
| Plinovodi                                                                        | FGSZ                                                                            | 2030/31                                 | 173.880                                                  | 4.173.120                                                                           | Yes                                                                                                                                     | -                                                                                                                    |
| Plinovodi                                                                        | FGSZ                                                                            | 2031/32                                 | 173.880                                                  | 4.173.120                                                                           | Yes                                                                                                                                     | -                                                                                                                    |
| Plinovodi                                                                        | FGSZ                                                                            | 2032/33                                 | 173.880                                                  | 4.173.120                                                                           | Yes                                                                                                                                     | -                                                                                                                    |
| Plinovodi                                                                        | FGSZ                                                                            | 2033/34                                 | 173.880                                                  | 4.173.120                                                                           | Yes                                                                                                                                     | -                                                                                                                    |
| Plinovodi                                                                        | FGSZ                                                                            | 2034/35                                 | 248.400                                                  | 5.961.600                                                                           | Yes                                                                                                                                     | -                                                                                                                    |
| Plinovodi                                                                        | FGSZ                                                                            | 2035/36                                 | 575.201                                                  | 13.804.824                                                                          | Partially                                                                                                                               | -                                                                                                                    |
| Plinovodi                                                                        | FGSZ                                                                            | 2036/37                                 | 575.201                                                  | 13.804.824                                                                          | Partially                                                                                                                               | -                                                                                                                    |
| Plinovodi                                                                        | FGSZ                                                                            | 2037/38                                 | 575.201                                                  | 13.804.824                                                                          | Partially                                                                                                                               | -                                                                                                                    |
| Plinovodi                                                                        | FGSZ                                                                            | 2038/39                                 | 575.201                                                  | 13.804.824                                                                          | Partially                                                                                                                               | -                                                                                                                    |
| Plinovodi                                                                        | FGSZ                                                                            | 2039/40                                 | 740.801                                                  | 17.779.224                                                                          | Partially                                                                                                                               | -                                                                                                                    |
| Plinovodi                                                                        | FGSZ                                                                            | 20NN/NN+1                               | 740.801                                                  | 17.779.224                                                                          | Partially                                                                                                                               | -                                                                                                                    |
| Plinovodi                                                                        | FGSZ                                                                            | 2050/51                                 | 740.801                                                  | 17.779.224                                                                          | Partially                                                                                                                               | -                                                                                                                    |

| <b>From</b><br><br><i>[entry-exit system name]</i><br><br><b>“EXIT CAPACITY”</b> | <b>To</b><br><br><i>[entry-exit system name]</i><br><br><b>“ENTRY CAPACITY”</b> | <b>Gas year</b><br><br><i>[yyyy/yy]</i> | <b>Amount</b><br><br>(kWh/h)<br>(GCV:3,54 kWh/Nm3 (0°C)) | <b>Amount</b><br><br>(kWh/day)<br>(GCV:3,54 kWh/Nm3 (0°C))<br>Calculated from kWh/h | <b>Request is submitted to other TSOs</b><br><br><i>[yes, TSO] or [no]</i><br><br><b>(detailed information shall be provided below)</b> | <b>Additional Information</b><br><br><i>(e.g. type of capacity, if different from bundled firm freely allocable)</i> |
|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| FGSZ                                                                             | Plinovodi                                                                       | 2029/30                                 | 6.800                                                    | 163.200                                                                             | No                                                                                                                                      | -                                                                                                                    |
| FGSZ                                                                             | Plinovodi                                                                       | 2030/31                                 | 6.800                                                    | 163.200                                                                             | No                                                                                                                                      | -                                                                                                                    |
| FGSZ                                                                             | Plinovodi                                                                       | 2031/32                                 | 6.800                                                    | 163.200                                                                             | No                                                                                                                                      | -                                                                                                                    |
| FGSZ                                                                             | Plinovodi                                                                       | 2032/33                                 | 6.800                                                    | 163.200                                                                             | No                                                                                                                                      | -                                                                                                                    |

|             |                  |                  |              |                |           |          |
|-------------|------------------|------------------|--------------|----------------|-----------|----------|
| <i>FGSZ</i> | <i>Plinovodi</i> | <i>2033/34</i>   | <i>6.800</i> | <i>163.200</i> | <i>No</i> | <i>-</i> |
| <i>FGSZ</i> | <i>Plinovodi</i> | <i>2034/35</i>   | <i>6.800</i> | <i>163.200</i> | <i>No</i> | <i>-</i> |
| <i>FGSZ</i> | <i>Plinovodi</i> | <i>2035/36</i>   | <i>6.800</i> | <i>163.200</i> | <i>No</i> | <i>-</i> |
| <i>FGSZ</i> | <i>Plinovodi</i> | <i>2036/37</i>   | <i>6.800</i> | <i>163.200</i> | <i>No</i> | <i>-</i> |
| <i>FGSZ</i> | <i>Plinovodi</i> | <i>2037/38</i>   | <i>6.800</i> | <i>163.200</i> | <i>No</i> | <i>-</i> |
| <i>FGSZ</i> | <i>Plinovodi</i> | <i>2038/39</i>   | <i>6.800</i> | <i>163.200</i> | <i>No</i> | <i>-</i> |
| <i>FGSZ</i> | <i>Plinovodi</i> | <i>2039/40</i>   | <i>6.800</i> | <i>163.200</i> | <i>No</i> | <i>-</i> |
| <i>FGSZ</i> | <i>Plinovodi</i> | <i>20NN/NN+1</i> | <i>6.800</i> | <i>163.200</i> | <i>No</i> | <i>-</i> |
| <i>FGSZ</i> | <i>Plinovodi</i> | <i>2050/51</i>   | <i>6.800</i> | <i>163.200</i> | <i>No</i> | <i>-</i> |

## B. Demand assessment

The received demand indications within the above period between the Slovenian entry-exit system and the Hungarian entry-exit system were provided for a limited period. A part of this period lies before the intended establishment of a hydrogen IP with Hungary (Pince / Tornyiszentmiklós) which is planned from approximately 2035 onwards, making this demand indication not sufficient to develop any capacity in regard to hydrogen ready pipelines.

Both TSOs have developed some projects regarding the hydrogen interconnection point Pince / Tornyiszentmiklós and included them in their National TYNDPs and ENTSG TYNDP.

IP Pince / Tornyiszentmiklós is included in the ENTSG TYNDP 2024 (H2T-N-1356 Italy-Slovenia-Hungary H2 corridor) and (H2T-N-1281 Slovenian Hungarian H2 corridor) as a hydrogen project and intends to become a part of the hydrogen backbone establishing a hydrogen interconnection with the Hungarian system in the next stage, from approximately 2035 onwards. Project will establish a new supply route for hydrogen and will connect three neighbouring countries: Italy, Slovenia and Hungary. Increased interest in domestic hydrogen production and consumption in all three countries is expected, since this project will enable access to hydrogen transmission system and allow export and import of hydrogen. Project will establish two new hydrogen IPs: Italy-Slovenia and Hungary-Slovenia.

Pince / Tornyiszentmiklós interconnection point (IP) is currently not an existing network point.

## C. Conclusion

According to the assessment result of the non-binding demand indications under point B, no Incremental capacity project proposal will be initiated yet.

Based on the aforementioned decision, no common technical studies for capacity projects will be conducted, however both TSOs will continue to study the Projects in their countries in line with their National NDPs and ENTSG TYNDP.

## D. Contact information

Plinovodi d.o.o.

FGSZ Ltd.

Urška Gabrovšek

Sándor Bogoly

Head of Marketing and Regulation Department

Adviser

Marketing and Regulation Department

Green Transition Office

+386 40754412

+36-20-9440-706

+386 1 5820 696

[urska.gabrovsek@plinovodi.si](mailto:urska.gabrovsek@plinovodi.si)

[sbogoly@fgsz.hu](mailto:sbogoly@fgsz.hu)

Cesta Ljubljanske brigade 11b

Tanácsház u. 5.

1000 Ljubljana

8600 Siófok

Slovenia

Hungary