

*Before going through the content of each specific Project Fiche, please read the introduction document.*

## Project Group EAST\_11A - Slovenian-Hungary interconnection

### Reasons for grouping [ENTSO G]

Project group represents a new interconnector between Hungary and Slovenia at Pince(SI)/Tornyszentmiklos(HU) IP and includes both sides of the investments.

### Objective of the project(s) in the group [Promoter]

The project group aims at (1) establishing bidirectional flows between the Hungarian (Central-East and South-European gas market) and Slovenian gas system and further with Italian gas system; (2) creating access of the Hungarian and Central-East and South-European gas suppliers to the new gas sources on the Western European gas markets (e.g. Italy) and access to the LNG sources in Italy and Northern Adriatic region; (3) enabling gas market integration and gas price differences mitigation between Italian gas hub and central European and Balkan price zone; (4) enabling access of Slovenian gas suppliers to Hungarian underground gas storage facilities; (5) increasing of the security of supply in Slovenia and the improvement of the N-1 infrastructure standard; (6) increase the gas security of supply in the region (regarding the possible events in the regional transmission systems).

The project is scalable, and the final technical capacity can be adjusted to the market demand.



## Projects constituting the group

| TYNDP Project Code | Project Name                       | Promoter         | Hosting Country | Project Status | 4th PCI List Code | First Comm. Year | Last Comm. Year | Compared to TYNP 2018 |
|--------------------|------------------------------------|------------------|-----------------|----------------|-------------------|------------------|-----------------|-----------------------|
| TRA-N-0112         | R15/1 Pince - Lendava - Kidričevo  | Plinovodi d.o.o. | SI              | Less-Advanced  | 6.23              | 2023             | 2025            | Rescheduled           |
| TRA-N-0325         | Slovenian-Hungarian interconnector | FGSZ             | HU              | Less-Advanced  | 6.23              | 2023             | 2025            | Rescheduled           |

## Technical Information

| TYNDP Project Code | Diameter [mm] | Length [km] | Compressor Power [MW] |
|--------------------|---------------|-------------|-----------------------|
| TRA-N-0112         | 600           | 73          | 6                     |
| TRA-N-0112         | 500           | 73          | 6                     |
| TRA-N-0325         | 600           | 41          | -                     |
| TRA-N-0325         | 600           | 150         | 12                    |

## Capacity Increment

The capacity increment values for each project are provided at all related Interconnection points (IP), both for “exit” and “entry” directions, being indicated the operator of the IP as well as the associated commissioning years of the capacity increments.

This information is presented in the table below and should be read per each line as follows: a certain project, TRA-N-123, can bring at a specific “Point Name” operated by “Operator X” an “exit” capacity increment “From System Y” “To System Z” which has associated an “Increment Commissioning Year”. Equally, for the same “Point Name” and operated by the same “Operator X”, an “entry” (reverse) capacity increment can be available to system “Y” from system “Z” which at its turn has associated an “Increment Commissioning Year”.

| TYNDP Project Code | Point Name                         | Operator         | From System                | Exit Capacity [GWh/d] | Increment Comm. Year | To System                  | Entry Capacity [GWh/d] | Increment Comm. Year |
|--------------------|------------------------------------|------------------|----------------------------|-----------------------|----------------------|----------------------------|------------------------|----------------------|
| TRA-N-112          | Pince (SI) / Tornyszentmiklos (HU) | Plinovodi d.o.o. | Transmission Slovenia      | 12.9                  | 2023                 | Transmission Hungary (MGP) | 12.9                   | 2023                 |
| TRA-N-112          | Pince (SI) / Tornyszentmiklos (HU) | Plinovodi d.o.o. | Transmission Slovenia      | 36.1                  | 2025                 | Transmission Hungary (MGP) | 36.1                   | 2025                 |
| TRA-N-325          | Pince (SI) / Tornyszentmiklos (HU) | FGSZ Ltd.        | Transmission Hungary (MGP) | 12.8                  | 2023                 | Transmission Slovenia      | 12.8                   | 2023                 |
| TRA-N-325          | Pince (SI) / Tornyszentmiklos (HU) | FGSZ Ltd.        | Transmission Hungary (MGP) | 46.5                  | 2025                 | Transmission Slovenia      | 46.5                   | 2025                 |

## B. Project Cost Information

During the TYNDP 2020 Project Data Collection, promoters were asked to indicate whether their costs were confidential or not. The following tables display the costs provided by the promoters (as of June 2019, end of TYNDP 2020 project collection). The amounts provided can differ from the figures used by the project promoters in other contexts, where costs can be updated and/or evaluated using different methodologies or assumptions. For the purposes of this project fiche, in case promoters identified their costs as confidential, alternative costs have been provided by the promoter. The alternative costs are identified with “\*”.

|                          | TRA-N-112 | TRA-N-325 | Total Cost   |
|--------------------------|-----------|-----------|--------------|
| <b>CAPEX [min, EUR]</b>  | 112.8*    | 205*      | <b>317.8</b> |
| <b>OPEX [min, EUR/y]</b> | 1.28*     | 10*       | <b>11.28</b> |
| <b>Range CAPEX (%)</b>   | 10        | 25        | -            |
| <b>Range OPEX (%)</b>    | 10        | 15        | -            |

### Description of costs and range [Promoter]

#### For project TRA-N-112:

- Description of CAPEX: the pipeline (construction, connections and other costs) represents 70% of CAPEX, CS Kidričevo (civil works, equipment and other costs) represents 26% of the cost and BMRS Pince (civil works, equipment and other costs) represents 4% of the cost.
- Description of OPEX: 45% of costs represent the cost of own consumption of gas (for the operation of the compressor station – CS Kidričevo), 50% of costs represent operation and maintenance cost, and 5% are labor costs.

#### For project TRA-N-325:

- Description of CAPEX: the cost and range are based on feasibility study.
- Description of OPEX: the most significant impact on operating cost is the energy consumption of compressor stations

## C. Project Benefits

### C.1 Summary of project benefits

This section provides a summarised analysis by ENTSG of the main benefits stemming from the realisation of the overall group and according to the guidelines included in the ENTSG 2nd CBA Methodology. More details on the indicators are available in sections D and E.

#### National Trends

##### Benefits explained (but Sustainability) [ENTSG]

###### > Security of Supply:

The project group **increases the remaining flexibility** in Slovenia from 2025 in the existing infrastructure level, reaching higher remaining flexibility levels (up to 100% in most of the climatic stress cases) in 2030-2040 with the commissioning (in 2025) of the second capacity increment of the Hungary-Slovenia interconnection. Regarding the low and advanced infrastructure levels, the project group will increase the remaining flexibility in Slovenia up to 100% (during peak day demand situation) while for 2-week cold spell and 2-week dunkelflaute climatic stress cases, Slovenia has already reached 100% remaining flexibility thanks to FID and advanced-status projects.

In case of **SLID-Slovenia (Murfeld (AT)/Ceršak(SI) IP)**, in the existing infrastructure level the project group **reduces the exposure to demand curtailment** of Slovenia and Croatia. For this same indicator, in the low and advanced infrastructure levels, the project group further reduces the risk of demand curtailment in Slovenia and **fully mitigates this risk** from 2030.

###### > Competition:

The project group improves the **diversification of entry capacities** (LICD indicator) in Hungary and Slovenia.

In addition, in the advanced infrastructure level with the implementation of projects enabling National Production in Romania, the project group will allow Slovenia to access an additional supply source (Eastern Europe National Production) in 2030.

###### > Market integration:

The project group brings benefits in monetised terms as a **reduction of the cost of gas supply**, however only under cheap Russian supply and expensive LNG supply price configurations (up to 7.5 MEur/y on average in the existing infrastructure level), from 2030 onwards thanks to the commissioning (in 2025) of the second capacity increment of the interconnection. Such benefits are driven by tariffs savings thanks to the utilisation of this alternative and cheaper route, and subsequently, reducing flows from more expensive routes, mainly decrease of Russian flows through Austria. This is confirmed by the sensitivity analysis on tariffs that shows variation in the size of benefits depending on the level of tariffs (higher or lower compared to the reference one) considering for this new route and in case of higher tariffs, the sensitivity analysis tables shows in fact considerably lower benefits (up to 3.2 MEur/y) attributed to this new alternative route.

In case of the low and advanced infrastructure levels, the project group brings less benefits compared to existing infrastructure level due to the commissioning of FID and advanced projects in the neighbouring countries that reduce the use of the new interconnection.

The project group **improves bidirectionality** between Hungary and Slovenia.

## Distributed Energy

### Benefits explained (but Sustainability) [ENTSO G]

#### > Security of Supply:

The project group **increases the remaining flexibility** in Slovenia from 2025 in the existing infrastructure level, reaching 100% from 2030 with the commissioning (in 2025) of the second capacity increment of the Hungary-Slovenia interconnection. In the low and advanced infrastructure levels, the project group will increase the remaining flexibility in Slovenia up to 100% (during peak day demand situation) while for 2-week cold spell and 2-week dunkelflaute climatic stress cases, Slovenia has already reached 100% remaining flexibility thanks to FID and advanced-status projects.

In case of **SLID-Slovenia (Murfeld (AT)/Ceršak(SI) IP)**, for all infrastructure levels, the project group **reduces the exposure to demand curtailment** of Slovenia in 2025. From 2030, in the low and advanced infrastructure levels together with the commissioning of the second capacity increment of the project group, that will allow for full mitigation of this risk.

#### > Competition:

The project group improves the **diversification of entry capacities** (LICD indicator) in Hungary and Slovenia.

Additionally, in the advanced infrastructure level with the implementation of projects enabling National Production in Romania, the project group will allow Slovenia **to access an additional supply source** (Eastern Europe National Production) in 2030.

#### > Market integration:

The project group brings benefits in monetised terms as a **reduction of the cost of gas supply**, however only under cheap Russian supply and expensive LNG supply price configurations (up to 6 MEur/y on average in the existing infrastructure level), from 2030 onwards thanks to the commissioning (in 2025) of the second capacity increment of the interconnection. Such benefits are driven by tariffs savings thanks to the utilisation of this alternative and cheaper route, and subsequently, reducing flows from more expensive routes, mainly decrease of Russian flows through Austria. This is confirmed by the sensitivity analysis on tariffs that shows variation in the size of benefits depending on the level of tariffs (higher or lower compared to the reference one) considering for this new route and in case of higher tariffs, the sensitivity analysis tables shows in fact considerably lower benefits (up to 2.2 MEur/y) attributed to this new alternative route.

In case of the low and advanced infrastructure levels, the project group brings less benefits compared to existing infrastructure level due to the commissioning of FID and advanced projects in the neighbouring countries that reduce the use of the new interconnection.

The project group **improves bidirectionality** between Hungary and Slovenia.

## Global Ambition

### Benefits explained (but Sustainability) [ENTSOG]

#### > Security of Supply:

The project group **increases the remaining flexibility** in Slovenia from 2025 and reaching 100% in 2030 for all climatic stress conditions and infrastructure levels.

In Global Ambition demand scenario, Slovenian gas demand is higher than in National Trends or Distributed Energy, this leads to a lower cooperation with its neighbouring countries in this scenario, and subsequently higher risk of demand curtailment. More specifically, in case of infrastructure disruptions, such as SLID-Slovakia, SLID-Austria and SLID-Slovenia in the existing infrastructure level, as these infrastructures are part of the Ukrainian import route to Slovakia, and therefore, share a similar impact of demand curtailment.

In case of **SLID-Slovakia**, in the existing infrastructure level, the project group **slightly reduces the risk of demand curtailment** of Slovenia, Austria, and Czech Republic in 2030.

In case of **SLID-Austria**, in the existing infrastructure level, the project group **fully mitigates the risk of demand curtailment** of Austria and Switzerland and **partially mitigates the risk of demand curtailment** of Slovenia.

In case of **SLID-Slovenia (Murfeld (AT)/Ceršak(SI) IP)**, the project group helps to **mitigate the risk of demand curtailment** in Slovenia from 2025 and fully mitigates the exposure of Slovenia to demand curtailment in the low (2030) and advanced (2030-2040) infrastructure levels.

#### > Competition:

The project group improves the **diversification of entry capacities** (LICD indicator) in Hungary and Slovenia.

In addition, in the advanced infrastructure level with the implementation of projects enabling National Production in Eastern Europe, the project group will allow Slovenia to **access an additional supply source** (Eastern Europe National Production) in 2030.

#### > Market integration:

The project group brings benefits in monetised terms as a **reduction of the cost of gas supply**, in the reference case (2 MEUR/y on average) and under cheap Russian supply and expensive LNG supply price configurations (up to 9 MEUR/y on average in the existing infrastructure level), from 2030 onwards thanks to the commissioning (in 2025) of the second capacity increment of the interconnection. Such benefits are driven by tariffs savings thanks to the utilisation of this alternative and cheaper route, and subsequently, reducing flows from more expensive routes, mainly decrease of Russian flows through Austria. This is confirmed by the sensitivity analysis on tariffs that shows variation in the size of benefits depending on the level of tariffs (higher or lower compared to the reference one) considering for this new route and in case of higher tariffs, the sensitivity analysis tables shows in fact considerably lower benefits (up to 3.1 MEUR/y) attributed to this new alternative route.

In case of the low and advanced infrastructure levels, the project group brings less benefits compared to existing infrastructure level due to the commissioning of FID and advanced projects in the neighbouring countries that reduce the use of the new interconnection.

The project group **improves bidirectionality** between Hungary and Slovenia.

## Sustainability benefits explained [ENTSOG/Project Promoter]

The ENTSOG analysis shows that, in the yearly assessment, the projects group realisation enhances the replacement of more polluting fuels with natural gas, which enables fuel switch savings in Slovenia between 0.5-1.2 MEUR/y under existing infrastructure level and Global Ambition scenarios. The table below shows the related reduction in terms of CO<sub>2</sub>eq/y for each scenario and infrastructure level and over the 25-years assessment period of the project group. The contribution of the project group to the CO<sub>2</sub>eq/y emissions (positive number indicate reduction in CO<sub>2</sub>eq/y emissions) is also displayed for the three simulation configurations that consider different level of tariffs for the project group.

| Sustainability   |                           | EXISTING |       |         | LOW   |       |       | ADVANCED |       |       |
|--|---------------------------|----------|-------|---------|-------|-------|-------|----------|-------|-------|
| CO <sub>2</sub> and Other externalities (KtCO <sub>2</sub> eq/y) | Reference                 | 0 / 0    | 0 / 0 | 25 / 26 | 0 / 0 | 0 / 0 | 0 / 0 | 0 / 0    | 0 / 0 | 0 / 0 |
|  | Lower Tariff Sensitivity  | 0 / 0    | 0 / 0 | 0 / 0   | 0 / 0 | 0 / 0 | 0 / 0 | 0 / 0    | 0 / 0 | 0 / 0 |
|  | Higher Tariff Sensitivity | 0 / 0    | 0 / 0 | 25 / 26 | 0 / 0 | 0 / 0 | 0 / 0 | 0 / 0    | 0 / 0 | 0 / 0 |

The minimum and the maximum values displayed in the table above refer respectively to the CO<sub>2</sub>eq/y savings in case emissions from the additional gas demand increase not replacing other more polluting fuels are counted in the overall CO<sub>2</sub>eq emissions assessment or they are considered neutral. For more information, please consult the Project Fiche introduction document and the TYNDP 2020 Annex D.

Savings have been allocated to the project group based on the flows resulting from ENSTOG simulations under the reference supply price configurations and according to the methodology described in TYNDP 2020 Annex D. Such methodology is also based on the assumption that the use of the infrastructures already included in the different infrastructure levels (versus which the project group is assessed) is always prioritised.

Observing the evolution of benefits among the assessed years (section C.3), savings are allocated to the project group only between 2030-2040 and only in Global Ambition scenario.

TYNDP 2020 ENTSOG and ENTSO-E scenario storylines have identified for Distributed Energy and Global Ambition scenarios the need for hydrogen imports to satisfy the hydrogen demand that cannot be covered by European production of hydrogen (e.g. through power-to-gas). In the future, hydrogen demand not satisfied by locally produced hydrogen could be covered by directly imported hydrogen through hydrogen-compatible infrastructures and/or by natural gas through natural gas pipelines or LNG terminal. In TYNDP 2020 ENTSOG has considered fuel switch benefits from hydrogen import in the form of natural gas import then converted into hydrogen in Europe. For project group EAST\_11A, such benefits represent around 85% of the benefits from fuel switch in Global Ambition scenarios in 2030.

## Sustainability benefits explained [Project Promoter]

No additional benefits were provided by promoters.

## C.2 Quantitative benefits [ENTSOG]

The following tables display all the benefits quantified by ENTSOG through specific indicators and stemming from the realisation of the considered project group. Some of those benefits are measured through quantitative indicators (i.e. SLID and Curtailment rate) and monetised ex-post. Their monetised value is displayed in section E. When assessing those type of benefits, it is important to avoid any double counting considering them both in quantitative and monetised terms.

### EXISTING Infrastructure Level – National Trends

| Sum of Value   |  | Column Labels |       |       |         |       |       |         |       |        |         |       |        |
|--|--|---------------|-------|-------|---------|-------|-------|---------|-------|--------|---------|-------|--------|
|  |  | 2025          |       |       | 2030    |       |       | 2040    |       |        |         |       |        |
|  |  | CBG           |       |       | GBC     |       |       | NT      |       |        |         |       |        |
| Row Labels   |  | WITHOUT       | WITH  | DELTA | WITHOUT | WITH  | DELTA | WITHOUT | WITH  | DELTA  | WITHOUT | WITH  | DELTA  |
| Competition  |  |               |       |       |         |       |       |         |       |        |         |       |        |
| LNG and Interconnection Capacity Diversification (LICD)  |  |               |       |       |         |       |       |         |       |        |         |       |        |
| Hungary  |  | 4,532         | 4,181 | -351  | 4,532   | 4,181 | -351  | 4,532   | 3,538 | -994   | 4,532   | 3,538 | -994   |
| Slovenia   |  | 4,205         | 3,273 | -932  | 4,252   | 3,320 | -932  | 4,238   | 3,006 | -1,233 | 4,253   | 3,014 | -1,239 |
| Security of Supply                                       |  |               |       |       |         |       |       |         |       |        |         |       |        |
| Remaining Flexibility 2-Week Cold Spell (%)              |  |               |       |       |         |       |       |         |       |        |         |       |        |
| Slovenia   |  | 53%           | 71%   | 18%   | 40%     | 59%   | 18%   | 71%     | 100%  | 29%    | 67%     | 100%  | 33%    |
| Remaining Flexibility 2-Week Cold Spell (%) --- DF       |  |               |       |       |         |       |       |         |       |        |         |       |        |
| Slovenia   |  | 46%           | 65%   | 18%   | 35%     | 53%   | 18%   | 57%     | 100%  | 43%    | 61%     | 100%  | 39%    |
| Remaining Flexibility Peak day (%)                       |  |               |       |       |         |       |       |         |       |        |         |       |        |
| Slovenia   |  | 20%           | 37%   | 17%   | 13%     | 30%   | 17%   | 33%     | 94%   | 62%    | 39%     | 100%  | 61%    |
| Single Largest Infrastructure Disruption (SLID)-Slovenia |  |               |       |       |         |       |       |         |       |        |         |       |        |
| Croatia  |  |               |       |       |         |       |       | 25%     | 16%   | -10%   | 24%     | 14%   | -10%   |
| Slovenia   |  | 53%           | 37%   | -17%  | 53%     | 37%   | -17%  | 54%     | 14%   | -40%   | 54%     | 14%   | -40%   |
| Market Integration                                       |  |               |       |       |         |       |       |         |       |        |         |       |        |
| Bi-directionality - Country                              |  |               |       |       |         |       |       |         |       |        |         |       |        |
| HU <=> SI  |  | 0%            | 100%  | 100%  | 0%      | 100%  | 100%  | 0%      | 100%  | 100%   | 0%      | 100%  | 100%   |

### LOW Infrastructure Level – National Trends

| Sum of Value   |  | Column Labels |       |       |         |       |       |         |       |        |         |       |        |
|--|--|---------------|-------|-------|---------|-------|-------|---------|-------|--------|---------|-------|--------|
|  |  | 2025          |       |       | 2030    |       |       | 2040    |       |        |         |       |        |
| Row Labels   |  | CBG           |       |       | GBC     |       |       | NT      |       |        | NT      |       |        |
|  |  | WITHOUT       | WITH  | DELTA | WITHOUT | WITH  | DELTA | WITHOUT | WITH  | DELTA  | WITHOUT | WITH  | DELTA  |
| Competition  |  |               |       |       |         |       |       |         |       |        |         |       |        |
| LNG and Interconnection Capacity Diversification (LICD)  |  |               |       |       |         |       |       |         |       |        |         |       |        |
| Hungary  |  | 3,044         | 2,861 | -183  | 3,044   | 2,861 | -183  | 3,044   | 2,522 | -521   | 3,044   | 2,522 | -521   |
| Slovenia   |  | 4,205         | 3,273 | -932  | 4,252   | 3,320 | -932  | 4,238   | 3,006 | -1,233 | 4,253   | 3,014 | -1,239 |
| Security of Supply                                       |  |               |       |       |         |       |       |         |       |        |         |       |        |
| Remaining Flexibility Peak day (%)                       |  |               |       |       |         |       |       |         |       |        |         |       |        |
| Slovenia   |  | 93%           | 100%  | 7%    | 93%     | 100%  | 7%    | 89%     | 100%  | 11%    | 89%     | 100%  | 11%    |
| Single Largest Infrastructure Disruption (SLID)-Slovenia |  |               |       |       |         |       |       |         |       |        |         |       |        |
| Slovenia   |  | 53%           | 37%   | -17%  | 53%     | 37%   | -17%  | 54%     | 0%    | -54%   | 54%     | 0%    | -54%   |
| Market Integration                                       |  |               |       |       |         |       |       |         |       |        |         |       |        |
| Bi-directionality - Country                              |  |               |       |       |         |       |       |         |       |        |         |       |        |
| HU <=> SI  |  | 0%            | 100%  | 100%  | 0%      | 100%  | 100%  | 0%      | 100%  | 100%   | 0%      | 100%  | 100%   |



## ADVANCED Infrastructure Level – National Trends

| Sum of Value   |  | Column Labels |       |       |         |       |       |         |       |        |         |       |        |
|--|--|---------------|-------|-------|---------|-------|-------|---------|-------|--------|---------|-------|--------|
|  |  | 2025          |       |       | 2030    |       |       | 2040    |       |        |         |       |        |
|  |  | CBG           |       |       | GBC     |       |       | NT      |       |        | NT      |       |        |
| Row Labels   |  | WITHOUT       | WITH  | DELTA | WITHOUT | WITH  | DELTA | WITHOUT | WITH  | DELTA  | WITHOUT | WITH  | DELTA  |
| Competition  |  |               |       |       |         |       |       |         |       |        |         |       |        |
| Commercial Supply Access (CSA)                           |  |               |       |       |         |       |       |         |       |        |         |       |        |
| Slovenia   |  |               |       |       |         |       |       |         |       |        |         |       |        |
| LNG and Interconnection Capacity Diversification (LICD)  |  |               |       |       |         |       |       |         |       |        |         |       |        |
| Hungary  |  | 2,754         | 2,615 | -140  | 2,754   | 2,615 | -140  | 2,405   | 2,147 | -258   | 2,221   | 1,968 | -253   |
| Slovenia   |  | 4,205         | 3,273 | -932  | 4,252   | 3,320 | -932  | 4,238   | 3,006 | -1,233 | 4,253   | 3,014 | -1,239 |
| Security of Supply                                       |  |               |       |       |         |       |       |         |       |        |         |       |        |
| Remaining Flexibility Peak day (%)                       |  |               |       |       |         |       |       |         |       |        |         |       |        |
| Slovenia   |  | 93%           | 100%  | 7%    | 93%     | 100%  | 7%    | 89%     | 100%  | 11%    | 89%     | 100%  | 11%    |
| Single Largest Infrastructure Disruption (SLID)-Slovenia |  |               |       |       |         |       |       |         |       |        |         |       |        |
| Slovenia   |  | 53%           | 37%   | -17%  | 53%     | 37%   | -17%  | 54%     | 0%    | -54%   | 54%     | 0%    | -54%   |
| Market Integration                                       |  |               |       |       |         |       |       |         |       |        |         |       |        |
| Bi-directionality - Country                              |  |               |       |       |         |       |       |         |       |        |         |       |        |
| HU <=> SI  |  | 0%            | 100%  | 100%  | 0%      | 100%  | 100%  | 0%      | 100%  | 100%   | 0%      | 100%  | 100%   |

## EXISTING Infrastructure Level – Distributed Energy

| Sum of Value   |  | Column Labels |       |       |         |       |       |         |       |        |         |       |        |
|--|--|---------------|-------|-------|---------|-------|-------|---------|-------|--------|---------|-------|--------|
|  |  | 2025          |       |       | 2030    |       |       | 2040    |       |        |         |       |        |
|  |  | CBG           |       |       | GBC     |       |       | NT      |       |        | NT      |       |        |
| Row Labels   |  | WITHOUT       | WITH  | DELTA | WITHOUT | WITH  | DELTA | WITHOUT | WITH  | DELTA  | WITHOUT | WITH  | DELTA  |
| Competition  |  |               |       |       |         |       |       |         |       |        |         |       |        |
| LNG and Interconnection Capacity Diversification (LICD)  |  |               |       |       |         |       |       |         |       |        |         |       |        |
| Hungary  |  | 4,532         | 4,181 | -351  | 4,532   | 4,181 | -351  | 4,532   | 3,538 | -994   | 4,532   | 3,538 | -994   |
| Slovenia   |  | 4,205         | 3,273 | -932  | 4,252   | 3,320 | -932  | 4,238   | 3,006 | -1,233 | 4,253   | 3,014 | -1,239 |
| Security of Supply                                       |  |               |       |       |         |       |       |         |       |        |         |       |        |
| Remaining Flexibility 2-Week Cold Spell (%)              |  |               |       |       |         |       |       |         |       |        |         |       |        |
| Slovenia   |  | 53%           | 71%   | 18%   | 40%     | 59%   | 18%   | 71%     | 100%  | 29%    | 67%     | 100%  | 33%    |
| Remaining Flexibility 2-Week Cold Spell (%) --- DF       |  |               |       |       |         |       |       |         |       |        |         |       |        |
| Slovenia   |  | 46%           | 65%   | 18%   | 35%     | 53%   | 18%   | 57%     | 100%  | 43%    | 61%     | 100%  | 39%    |
| Remaining Flexibility Peak day (%)                       |  |               |       |       |         |       |       |         |       |        |         |       |        |
| Slovenia   |  | 20%           | 37%   | 17%   | 13%     | 30%   | 17%   | 33%     | 94%   | 62%    | 39%     | 100%  | 61%    |
| Single Largest Infrastructure Disruption (SLID)-Slovenia |  |               |       |       |         |       |       |         |       |        |         |       |        |
| Croatia  |  |               |       |       |         |       |       |         |       |        |         |       |        |
| Slovenia   |  | 53%           | 37%   | -17%  | 53%     | 37%   | -17%  | 25%     | 16%   | -10%   | 24%     | 14%   | -10%   |
| Market Integration                                       |  |               |       |       |         |       |       |         |       |        |         |       |        |
| Bi-directionality - Country                              |  |               |       |       |         |       |       |         |       |        |         |       |        |
| HU <=> SI  |  | 0%            | 100%  | 100%  | 0%      | 100%  | 100%  | 0%      | 100%  | 100%   | 0%      | 100%  | 100%   |

## LOW Infrastructure Level – Distributed Energy

| Sum of Value   |           | Column Labels |       |       |         |       |       |         |       |        |         |       |        |
|--|-----------|---------------|-------|-------|---------|-------|-------|---------|-------|--------|---------|-------|--------|
|  |           | 2025          |       |       |         |       |       | 2030    |       |        | 2040    |       |        |
|  |           | CBG           |       |       | GBC     |       |       | DE      |       |        | DE      |       |        |
| Row Labels   |           | WITHOUT       | WITH  | DELTA | WITHOUT | WITH  | DELTA | WITHOUT | WITH  | DELTA  | WITHOUT | WITH  | DELTA  |
| Competition  |           |               |       |       |         |       |       |         |       |        |         |       |        |
| Commercial Supply Access (CSA)                           |           |               |       |       |         |       |       |         |       |        |         |       |        |
|  | Slovenia  |               |       |       |         |       |       | 3       | 4     | 1      |         |       |        |
| LNG and Interconnection Capacity Diversification (LICD)  |           |               |       |       |         |       |       |         |       |        |         |       |        |
|  | Hungary   | 3,044         | 2,861 | -183  | 3,044   | 2,861 | -183  | 3,044   | 2,522 | -521   | 3,044   | 2,522 | -521   |
|  | Slovenia  | 4,205         | 3,273 | -932  | 4,252   | 3,320 | -932  | 4,153   | 2,956 | -1,197 | 4,292   | 3,036 | -1,256 |
| Security of Supply                                       |           |               |       |       |         |       |       |         |       |        |         |       |        |
| Remaining Flexibility Peak day (%)                       |           |               |       |       |         |       |       |         |       |        |         |       |        |
|  | Slovenia  | 93%           | 100%  | 7%    | 93%     | 100%  | 7%    |         |       |        | 95%     | 100%  | 5%     |
| Single Largest Infrastructure Disruption (SLID)-Slovenia |           |               |       |       |         |       |       |         |       |        |         |       |        |
|  | Slovenia  | 53%           | 37%   | -17%  | 53%     | 37%   | -17%  | 39%     | 0%    | -39%   | 32%     | 0%    | -32%   |
| Market Integration                                       |           |               |       |       |         |       |       |         |       |        |         |       |        |
| Bi-directionality - Country                              |           |               |       |       |         |       |       |         |       |        |         |       |        |
|  | HU <=> SI | 0%            | 100%  | 100%  | 0%      | 100%  | 100%  | 0%      | 100%  | 100%   | 0%      | 100%  | 100%   |

## ADVANCED Infrastructure Level – Distributed Energy

| Sum of Value   |           | Column Labels |       |       |         |       |       |         |       |        |         |       |        |
|--|-----------|---------------|-------|-------|---------|-------|-------|---------|-------|--------|---------|-------|--------|
|  |           | 2025          |       |       |         |       |       | 2030    |       |        | 2040    |       |        |
|  |           | CBG           |       |       | GBC     |       |       | DE      |       |        | DE      |       |        |
| Row Labels   |           | WITHOUT       | WITH  | DELTA | WITHOUT | WITH  | DELTA | WITHOUT | WITH  | DELTA  | WITHOUT | WITH  | DELTA  |
| Competition  |           |               |       |       |         |       |       |         |       |        |         |       |        |
| Commercial Supply Access (CSA)                           |           |               |       |       |         |       |       |         |       |        |         |       |        |
|  | Slovenia  |               |       |       |         |       |       | 3       | 4     | 1      |         |       |        |
| LNG and Interconnection Capacity Diversification (LICD)  |           |               |       |       |         |       |       |         |       |        |         |       |        |
|  | Hungary   | 2,754         | 2,615 | -140  | 2,754   | 2,615 | -140  | 2,268   | 2,014 | -253   | 2,213   | 1,960 | -253   |
|  | Slovenia  | 4,205         | 3,273 | -932  | 4,252   | 3,320 | -932  | 4,153   | 2,956 | -1,197 | 4,292   | 3,036 | -1,256 |
| Security of Supply                                       |           |               |       |       |         |       |       |         |       |        |         |       |        |
| Remaining Flexibility Peak day (%)                       |           |               |       |       |         |       |       |         |       |        |         |       |        |
|  | Slovenia  | 93%           | 100%  | 7%    | 93%     | 100%  | 7%    |         |       |        | 95%     | 100%  | 5%     |
| Single Largest Infrastructure Disruption (SLID)-Slovenia |           |               |       |       |         |       |       |         |       |        |         |       |        |
|  | Slovenia  | 53%           | 37%   | -17%  | 53%     | 37%   | -17%  | 39%     | 0%    | -39%   | 32%     | 0%    | -32%   |
| Market Integration                                       |           |               |       |       |         |       |       |         |       |        |         |       |        |
| Bi-directionality - Country                              |           |               |       |       |         |       |       |         |       |        |         |       |        |
|  | HU <=> SI | 0%            | 100%  | 100%  | 0%      | 100%  | 100%  | 0%      | 100%  | 100%   | 0%      | 100%  | 100%   |

## EXISTING Infrastructure Level – Global Ambition

| Sum of Value   |             | Column Labels |       |       |         |       |       |         |       |        |         |       |        |
|--|-------------|---------------|-------|-------|---------|-------|-------|---------|-------|--------|---------|-------|--------|
|  |             | 2025          |       |       | 2030    |       |       | 2040    |       |        |         |       |        |
|  |             | CBG           |       |       | GBC     |       |       | GA      |       |        | GA      |       |        |
| Row Labels   |             | WITHOUT       | WITH  | DELTA | WITHOUT | WITH  | DELTA | WITHOUT | WITH  | DELTA  | WITHOUT | WITH  | DELTA  |
| Competition  |             |               |       |       |         |       |       |         |       |        |         |       |        |
| LNG and Interconnection Capacity Diversification (LICD)  |             |               |       |       |         |       |       |         |       |        |         |       |        |
|  | Hungary     | 4,532         | 4,181 | -351  | 4,532   | 4,181 | -351  | 4,532   | 3,538 | -994   | 4,532   | 3,538 | -994   |
|  | Slovenia    | 4,205         | 3,273 | -932  | 4,252   | 3,320 | -932  | 4,281   | 3,029 | -1,251 | 4,515   | 3,154 | -1,361 |
| Security of Supply                                       |             |               |       |       |         |       |       |         |       |        |         |       |        |
| Remaining Flexibility 2-Week Cold Spell (%)              |             |               |       |       |         |       |       |         |       |        |         |       |        |
|  | Slovenia    | 53%           | 71%   | 18%   | 40%     | 59%   | 18%   |         |       |        | 95%     | 100%  | 5%     |
| Remaining Flexibility 2-Week Cold Spell (%) --- DF       |             |               |       |       |         |       |       |         |       |        |         |       |        |
|  | Slovenia    | 46%           | 65%   | 18%   | 35%     | 53%   | 18%   |         |       |        | 88%     | 100%  | 12%    |
| Remaining Flexibility Peak day (%)                       |             |               |       |       |         |       |       |         |       |        |         |       |        |
|  | Belgium     |               |       |       |         |       |       | 75%     | 78%   | 3%     |         |       |        |
|  | Netherlands |               |       |       |         |       |       | 34%     | 35%   | 2%     | 61%     | 62%   | 2%     |
|  | Slovenia    | 20%           | 37%   | 17%   | 13%     | 30%   | 17%   | 73%     | 100%  | 27%    | 63%     | 100%  | 37%    |
| Single Largest Infrastructure Disruption (SLID)-Austria  |             |               |       |       |         |       |       |         |       |        |         |       |        |
|  | Austria     |               |       |       |         |       |       | 2%      | 0%    | -2%    |         |       |        |
|  | Slovenia    |               |       |       |         |       |       | 4%      | 2%    | -2%    |         |       |        |
|  | Switzerland |               |       |       |         |       |       | 2%      | 0%    | -2%    |         |       |        |
| Single Largest Infrastructure Disruption (SLID)-Slovakia |             |               |       |       |         |       |       |         |       |        |         |       |        |
|  | Austria     |               |       |       |         |       |       | 24%     | 22%   | -2%    |         |       |        |
|  | Czechia     |               |       |       |         |       |       | 24%     | 22%   | -2%    |         |       |        |
|  | Slovakia    |               |       |       |         |       |       | 24%     | 22%   | -2%    |         |       |        |
| Single Largest Infrastructure Disruption (SLID)-Slovenia |             |               |       |       |         |       |       |         |       |        |         |       |        |
|  | Croatia     |               |       |       |         |       |       | 4%      | 0%    | -4%    |         |       |        |
|  | Slovenia    | 53%           | 37%   | -17%  | 53%     | 37%   | -17%  | 53%     | 2%    | -51%   | 50%     | 1%    | -50%   |
| Market Integration                                       |             |               |       |       |         |       |       |         |       |        |         |       |        |
| Bi-directionality - Country                              |             |               |       |       |         |       |       |         |       |        |         |       |        |
|  | HU <=> SI   | 0%            | 100%  | 100%  | 0%      | 100%  | 100%  | 0%      | 100%  | 100%   | 0%      | 100%  | 100%   |

## LOW Infrastructure Level – Global Ambition

| Sum of Value   |  | Column Labels |       |       |         |       |       |         |       |        |         |       |        |
|--|--|---------------|-------|-------|---------|-------|-------|---------|-------|--------|---------|-------|--------|
|  |  | 2025          |       |       | 2030    |       |       | 2040    |       |        |         |       |        |
| Row Labels   |  | CBG           |       |       | GBC     |       |       | GA      |       |        | GA      |       |        |
|  |  | WITHOUT       | WITH  | DELTA | WITHOUT | WITH  | DELTA | WITHOUT | WITH  | DELTA  | WITHOUT | WITH  | DELTA  |
| Competition  |  |               |       |       |         |       |       |         |       |        |         |       |        |
| Commercial Supply Access (CSA)                           |  |               |       |       |         |       |       |         |       |        |         |       |        |
| Slovenia   |  |               |       |       |         |       |       | 3       | 4     | 1      | 3       | 4     | 1      |
| LNG and Interconnection Capacity Diversification (LICD)  |  |               |       |       |         |       |       |         |       |        |         |       |        |
| Hungary  |  | 3,044         | 2,861 | -183  | 3,044   | 2,861 | -183  | 3,044   | 2,522 | -521   | 3,044   | 2,522 | -521   |
| Slovenia   |  | 4,205         | 3,273 | -932  | 4,252   | 3,320 | -932  | 4,281   | 3,029 | -1,251 | 4,515   | 3,154 | -1,361 |
| Security of Supply                                       |  |               |       |       |         |       |       |         |       |        |         |       |        |
| Remaining Flexibility 2-Week Cold Spell (%)              |  |               |       |       |         |       |       |         |       |        |         |       |        |
| Slovenia   |  |               |       |       |         |       |       |         |       |        | 95%     | 100%  | 5%     |
| Remaining Flexibility 2-Week Cold Spell (%) --- DF       |  |               |       |       |         |       |       |         |       |        |         |       |        |
| Slovenia   |  |               |       |       |         |       |       |         |       |        | 88%     | 100%  | 12%    |
| Remaining Flexibility Peak day (%)                       |  |               |       |       |         |       |       |         |       |        |         |       |        |
| Belgium  |  |               |       |       |         |       |       | 53%     | 57%   | 3%     |         |       |        |
| Netherlands  |  |               |       |       |         |       |       | 24%     | 26%   | 2%     | 53%     | 54%   | 2%     |
| Slovenia   |  | 93%           | 100%  | 7%    | 93%     | 100%  | 7%    | 81%     | 100%  | 19%    | 63%     | 100%  | 37%    |
| Single Largest Infrastructure Disruption (SLID)-Slovenia |  |               |       |       |         |       |       |         |       |        |         |       |        |
| Slovenia   |  | 53%           | 37%   | -17%  | 53%     | 37%   | -17%  | 53%     | 0%    | -53%   | 50%     | 1%    | -50%   |
| Market Integration                                       |  |               |       |       |         |       |       |         |       |        |         |       |        |
| Bi-directionality - Country                              |  |               |       |       |         |       |       |         |       |        |         |       |        |
| HU <=> SI  |  | 0%            | 100%  | 100%  | 0%      | 100%  | 100%  | 0%      | 100%  | 100%   | 0%      | 100%  | 100%   |

## ADVANCED Infrastructure Level – Global Ambition

| Sum of Value   |  | Column Labels |       |       |         |       |       |         |       |        |         |       |        |
|--|--|---------------|-------|-------|---------|-------|-------|---------|-------|--------|---------|-------|--------|
|  |  | 2025          |       |       | 2030    |       |       | 2040    |       |        |         |       |        |
| Row Labels   |  | CBG           |       |       | GBC     |       |       | GA      |       |        | GA      |       |        |
|  |  | WITHOUT       | WITH  | DELTA | WITHOUT | WITH  | DELTA | WITHOUT | WITH  | DELTA  | WITHOUT | WITH  | DELTA  |
| Competition  |  |               |       |       |         |       |       |         |       |        |         |       |        |
| Commercial Supply Access (CSA)                           |  |               |       |       |         |       |       |         |       |        |         |       |        |
| Slovenia   |  |               |       |       |         |       |       | 3       | 4     | 1      |         |       |        |
| LNG and Interconnection Capacity Diversification (LICD)  |  |               |       |       |         |       |       |         |       |        |         |       |        |
| Hungary  |  | 2,754         | 2,615 | -140  | 2,754   | 2,615 | -140  | 2,269   | 2,016 | -253   | 2,227   | 1,974 | -253   |
| Slovenia   |  | 4,205         | 3,273 | -932  | 4,252   | 3,320 | -932  | 4,281   | 3,029 | -1,251 | 4,515   | 3,154 | -1,361 |
| Security of Supply                                       |  |               |       |       |         |       |       |         |       |        |         |       |        |
| Remaining Flexibility 2-Week Cold Spell (%)              |  |               |       |       |         |       |       |         |       |        |         |       |        |
| Slovenia   |  |               |       |       |         |       |       |         |       |        | 95%     | 100%  | 5%     |
| Remaining Flexibility 2-Week Cold Spell (%) --- DF       |  |               |       |       |         |       |       |         |       |        |         |       |        |
| Slovenia   |  |               |       |       |         |       |       |         |       |        | 88%     | 100%  | 12%    |
| Remaining Flexibility Peak day (%)                       |  |               |       |       |         |       |       |         |       |        |         |       |        |
| Slovenia   |  | 93%           | 100%  | 7%    | 93%     | 100%  | 7%    | 81%     | 100%  | 19%    | 63%     | 100%  | 37%    |
| Single Largest Infrastructure Disruption (SLID)-Slovenia |  |               |       |       |         |       |       |         |       |        |         |       |        |
| Slovenia   |  | 53%           | 37%   | -17%  | 53%     | 37%   | -17%  | 53%     | 0%    | -53%   | 50%     | 1%    | -50%   |
| Market Integration                                       |  |               |       |       |         |       |       |         |       |        |         |       |        |
| Bi-directionality - Country                              |  |               |       |       |         |       |       |         |       |        |         |       |        |
| HU <=> SI  |  | 0%            | 100%  | 100%  | 0%      | 100%  | 100%  | 0%      | 100%  | 100%   | 0%      | 100%  | 100%   |

### C.3 Monetised benefits [ENTSOG]

This section includes all benefits stemming from the realisation of a project that are quantified and monetised. Some benefits are monetised ex-post while others directly as a result of the simulations and are impacted by the modelling assumptions chosen (e.g. tariffs or supply price assumptions). Monetised benefits are showed at EU level. In order to keep the results in a manageable number, those have been aggregated per Infrastructure Level and Demand Scenarios. In line with the CBA Methodology, promoters could provide additional benefits related to Sustainability or Gasification. In the tables below these benefits are displayed separately from the ones computed directly by ENTSOG and are labelled as “(Promoter)”. More information on how to read the data in this section is provided in the Introduction Document.

|                      |                                     | EXISTING           |                       |                    | LOW                |                       |                    | ADVANCED           |                       |                    |
|----------------------|-------------------------------------|--------------------|-----------------------|--------------------|--------------------|-----------------------|--------------------|--------------------|-----------------------|--------------------|
| Benefits (Meur/year) |                                     | NATIONAL<br>TRENDS | DISTRIBUTED<br>ENERGY | GLOBAL<br>AMBITION | NATIONAL<br>TRENDS | DISTRIBUTED<br>ENERGY | GLOBAL<br>AMBITION | NATIONAL<br>TRENDS | DISTRIBUTED<br>ENERGY | GLOBAL<br>AMBITION |
| EU Bill benefits     | Reference Supply                    | 0.0                | 0.0                   | 2.4                | 0.0                | 0.0                   | 0.0                | 0.0                | 0.0                   | 0.0                |
| With Tariffs         | Supply Maximization                 | 7.6                | 5.9                   | 8.8                | 4.9                | 2.5                   | 5.5                | 3.0                | 2.1                   | 5.0                |
| Security of Supply   | Design Case                         | 1.3                | 0.8                   | 1.8                | 1.1                | 0.7                   | 1.2                | 1.1                | 0.7                   | 1.2                |
|                      | 2-weeks Cold Spell                  | 0.0                | 0.0                   | 0.0                | 0.0                | 0.0                   | 0.0                | 0.0                | 0.0                   | 0.0                |
|                      | 2-weeks Cold Spell DF               | 0.0                | 0.0                   | 0.0                | 0.0                | 0.0                   | 0.0                | 0.0                | 0.0                   | 0.0                |
| Sustainability       | CO2 and Other externalities savings | 0/0                | 0/0                   | 1.2 / 1.2          | 0/0                | 0/0                   | 0/0                | 0/0                | 0/0                   | 0/0                |
|                      | Additional benefit (Promoter)       | 0                  | 0                     | 0                  | 0                  | 0                     | 0                  | 0                  | 0                     | 0                  |

## Comparison between the assessed SCENARIOS

ENTSOE runs the assessment for 5-year-rounded years (2020, 2025, 2030 and 2040) and interpolates these results to compute the benefits for the 25-years economic lifetime of projects. The following tables show the benefits as computed in the specific assessment years.

| Year of assessment            |                                     | 2020     |     |     |     |     |     |          |     |     | 2025     |     |     |     |     |     |          |     |     |
|-------------------------------|-------------------------------------|----------|-----|-----|-----|-----|-----|----------|-----|-----|----------|-----|-----|-----|-----|-----|----------|-----|-----|
|                               |                                     | EXISTING |     |     | LOW |     |     | ADVANCED |     |     | EXISTING |     |     | LOW |     |     | ADVANCED |     |     |
| Benefits (Meur/year)          |                                     | NT       | DE  | GA  | NT  | DE  | GA  | NT       | DE  | GA  | NT       | DE  | GA  | NT  | DE  | GA  | NT       | DE  | GA  |
| EU Bill benefits With Tariffs | Reference Supply                    | 0.0      | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0      | 0.0 | 0.0 | 0.0      | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0      | 0.0 | 0.0 |
|                               | Supply Maximization                 | 0.0      | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0      | 0.0 | 0.0 | 0.0      | 0.0 | 0.0 | 0.2 | 0.2 | 0.2 | 0.0      | 0.0 | 0.0 |
| Security of Supply            | Design Case                         | 0.0      | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0      | 0.0 | 0.0 | 0.8      | 4.2 | 0.8 | 0.4 | 0.4 | 0.4 | 0.4      | 0.4 | 0.4 |
|                               | 2-weeks Cold Spell                  | 0.0      | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0      | 0.0 | 0.0 | 0.0      | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0      | 0.0 | 0.0 |
|                               | 2-weeks Cold Spell DF               | 0.0      | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0      | 0.0 | 0.0 | 0.0      | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0      | 0.0 | 0.0 |
| Sustainability                | CO2 and Other externalities savings | 0/0      | 0/0 | 0/0 | 0/0 | 0/0 | 0/0 | 0/0      | 0/0 | 0/0 | 0/0      | 0/0 | 0/0 | 0/0 | 0/0 | 0/0 | 0/0      | 0/0 | 0/0 |
|                               | Additional benefit (Promoter)       | 0.0      | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0      | 0.0 | 0.0 | 0.0      | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0      | 0.0 | 0.0 |

| Year of assessment            |                                     | 2030     |     |      |     |     |     |          |     |     | 2040     |     |     |     |     |     |          |     |     |
|-------------------------------|-------------------------------------|----------|-----|------|-----|-----|-----|----------|-----|-----|----------|-----|-----|-----|-----|-----|----------|-----|-----|
|                               |                                     | EXISTING |     |      | LOW |     |     | ADVANCED |     |     | EXISTING |     |     | LOW |     |     | ADVANCED |     |     |
| Benefits (Meur/year)          |                                     | NT       | DE  | GA   | NT  | DE  | GA  | NT       | DE  | GA  | NT       | DE  | GA  | NT  | DE  | GA  | NT       | DE  | GA  |
| EU Bill benefits With Tariffs | Reference Supply                    | 0.0      | 0.0 | 6.2  | 0.0 | 0.0 | 0.0 | 0.0      | 0.0 | 0.0 | 0.0      | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0      | 0.0 | 0.0 |
|                               | Supply Maximization                 | 8.6      | 7.7 | 12.2 | 6.5 | 7.3 | 8.2 | 4.3      | 6.7 | 9.2 | 8.6      | 6.0 | 8.3 | 6.0 | 0.7 | 6.1 | 3.5      | 0.3 | 4.4 |
| Security of Supply            | Design Case                         | 1.5      | 0.8 | 2.9  | 1.3 | 0.8 | 1.5 | 1.3      | 0.8 | 1.3 | 1.5      | 0.8 | 1.5 | 1.3 | 0.8 | 1.5 | 1.3      | 0.8 | 1.5 |
|                               | 2-weeks Cold Spell                  | 0.0      | 0.0 | 0.0  | 0.0 | 0.0 | 0.0 | 0.0      | 0.0 | 0.0 | 0.0      | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0      | 0.0 | 0.0 |
|                               | 2-weeks Cold Spell DF               | 0.0      | 0.0 | 0.0  | 0.0 | 0.0 | 0.0 | 0.0      | 0.0 | 0.0 | 0.0      | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0      | 0.0 | 0.0 |
| Sustainability                | CO2 and Other externalities savings | 0/0      | 0/0 | 3/3  | 0/0 | 0/0 | 0/0 | 0/0      | 0/0 | 0/0 | 0/0      | 0/0 | 0/0 | 0/0 | 0/0 | 0/0 | 0/0      | 0/0 | 0/0 |
|                               | Additional benefit (Promoter)       | 0.0      | 0.0 | 0.0  | 0.0 | 0.0 | 0.0 | 0.0      | 0.0 | 0.0 | 0.0      | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0      | 0.0 | 0.0 |

## C.4 Sensitivities analysis on monetised benefits [ENTSOG]

In line with ENTSG Adapted 2nd CBA Methodology, ENTSG has also run sensitivities on some relevant assumptions such as tariffs, commissioning year and lower supply source price differential. The results included in the tables below have to be compared with the ones included in section C.3. Further information is available in the common introduction (Pages 1-6) to all project fiches. Independently from the source of the input as described in C3 (ENTSG or Promoter), the sensitivity analysis has been carried out by ENTSG and according to the criteria in the approved CBA Methodology.

[illegible]

## D. Environmental Impact [Promoter]

Any gas infrastructure has an impact on its surroundings. This impact is of particular relevance when crossing some environmentally sensitive areas. Mitigation measures are taken by the promoters to reduce this impact and comply with the EU and National regulations. The Tables have been filled in by the promoter.

| TYNDP<br>Code | Type of<br>infrastructure | Surface of impact | Environmentally sensitive area |
|---------------|---------------------------|-------------------|--------------------------------|
|               |                           |                   |                                |
|               |                           |                   |                                |

| Potential impact | Mitigation measures | Related costs included in project<br>CAPEX and OPEX | Additional expected<br>costs |
|------------------|---------------------|---|------------------------------|
|                  |                     |   |                              |
|                  |                     |   |                              |

### Environmental Impact explained [Promoter]

Environmental impact assessments for the projects have not indicated any substantial and irreversible impacts on the environment. In order to ensure that environmental assessments are correct, environmental monitoring is carried out before, during and after the construction of the infrastructure.



## E. Other Benefits [Promoter]

Missing benefits are all benefits of a project which may be not captured by the current application in TYNDP 2020 of the 2nd CBA Methodology.

As a necessary condition a missing benefit cannot have discrepancies with the benefits already covered by the assessment run by ENTSG and this condition needs to be proved and justified.

### Other benefits explained [Promoter]

With the project group a bidirectional transmission corridor will be established between Hungary and Italy via Slovenia. The individual countries will gain access to all gas sources reachable currently and in the future in all three countries involved as well as in the region as detailed above in the "Objective of the project(s) in the group" section.

## F. Useful Links

### The project website:

HU: <https://fgsz.hu/en/about-fgsz/activities-business-policy/international-projects/husit>

### Network Development Plan:

HU: [https://fgsz.hu/file/documents/1/1743/2020\\_07\\_09\\_ten\\_year\\_network\\_development\\_plan.pdf](https://fgsz.hu/file/documents/1/1743/2020_07_09_ten_year_network_development_plan.pdf)

### Plinovodi National Development Plan 2020-2029 link:

<http://www.plinovodi.si/en/transmission-system/development-plan/>

### Plinovodi PCI project link:

<http://www.plinovodi.si/media/4765/pci-information-leaflet-623.pdf>