

The following tables show the Economic Performance Indicators (EPI) of the group of project and for all demand scenarios.

The EPI are also calculated based on the sensitivity of CAPEX and OPEX (based on the information provided in the sheet "PROMOTER input").

Assumptions

Social economic discount rate	4%
Price spread for standardised Extra EU supply configuration	5 EUR/MWh
Value of Lost Load	600 EUR/MWh

Blue Transition

Reference case (no sensitivity on costs)

Benefits in Blue Transition	LOW	Advanced
EU Bill		
Disrupted demand in 1-day peak (1-20)		
Disrupted demand in 2-weeks peak (1-20)		
N-1		
Gasification		
Total benefit (actualised)		
Total cost (actualised)		
ENPV		
EB/C		

Sensitivity on CAPEX & OPEX (higher costs)

Δ CAPEX	Δ OPEX

Benefits in Blue Transition	LOW	Advanced
EU Bill		
Disrupted demand in 1-day peak (1-20)		
Disrupted demand in 2-weeks peak (1-20)		
N-1		
Gasification		
Total benefit (actualised)		
Total cost (actualised)		
ENPV		
EB/C		

Sensitivity on CAPEX & OPEX (lower costs)

Δ CAPEX	Δ OPEX

Benefits in Blue Transition	LOW	Advanced
EU Bill		
Disrupted demand in 1-day peak (1-20)		
Disrupted demand in 2-weeks peak (1-20)		
N-1		
Gasification		
Total benefit (actualised)		
Total cost (actualised)		
ENPV		
EB/C		

Green Evolution

Benefits in Green Evolution	LOW	Advanced
EU Bill		
Disrupted demand in 1-day peak (1-20)		
Disrupted demand in 2-weeks peak (1-20)		
N-1		
Gasification		
Total benefit (actualised)		
Total cost (actualised)		
ENPV		
EB/C		

Benefits in Green Evolution	LOW	Advanced
EU Bill		
Disrupted demand in peak (1-20)		
Disrupted demand in 2-weeks peak (1-20)		
N-1		
Gasification		
Total benefit (actualised)		
Total cost (actualised)		
ENPV		
EB/C		

Benefits in Green Evolution	LOW	Advanced
EU Bill		
Disrupted demand in 1-day peak (1-20)		
Disrupted demand in 2-weeks peak (1-20)		
N-1		
Gasification		
Total benefit (actualised)		
Total cost (actualised)		
ENPV		
EB/C		

Green Revolution

Benefits in Green Revolution	LOW	Advanced
EU Bill		
Disrupted demand in 1-day peak (1-20)		
Disrupted demand in 2-weeks peak (1-20)		
N-1		
Gasification		
Total benefit (actualised)		
Total cost (actualised)		
ENPV		
EB/C		

Benefits in Green Revolution	LOW	Advanced
EU Bill		
Disrupted demand in 1-day peak (1-20)		
Disrupted demand in 2-weeks peak (1-20)		
N-1		
Gasification		
Total benefit (actualised)		
Total cost (actualised)		
ENPV		
EB/C		

Benefits in Green Revolution	LOW	Advanced
EU Bill		
Disrupted demand in 1-day peak (1-20)		
Disrupted demand in 2-weeks peak (1-20)		
N-1		
Gasification		
Total benefit (actualised)		
Total cost (actualised)		
ENPV		
EB/C		

The following tables describe the monetised benefits for all demand scenarios.
The monetised benefit occurring over multiple years have been discounted to year 2017.

Assumptions

Social economic discount rate

4%

Price spread for standardised Extra EU supply configuration

5 EUR/MWh

Value of Lost Load

600 EUR/MWh

Blue Transition

EU Bill improvement	LOW	Advanced
Blue Transition_Balanced		
Blue Transition_AZ Max		
Blue Transition_DZ Max		
Blue Transition_LNG Max		
Blue Transition_LY Max		
Blue Transition_NO Max		
Blue Transition_RU Max		
Blue Transition_AZ Min		
Blue Transition_DZ Min		
Blue Transition_LNG Min		
Blue Transition_LY Min		
Blue Transition_NO Min		
Blue Transition_RU Min		

Blue Transition_Import Price Spread		
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Mitigation in Disrupted Demand - Peak day (1-20)	LOW	Advanced
Design case - None		
Design case - Belarus		
Design case - Ukraine		

Mitigation in Disrupted Demand - 2-Weeks (1-20)	LOW	Advanced
2-Weeks case - None		
2-Weeks case - Belarus		
2-Weeks case - Ukraine		

Mitigation in N-1 for ESW-CBA (1-20)	LOW	Advanced
Blue Transition_N-1		

Gasification	LOW	Advanced
Blue Transition_Gasification		

Green Evolution

EU Bill improvement	LOW	Advanced
Green Evolution_Balanced		
Green Evolution_AZ Max		
Green Evolution_DZ Max		
Green Evolution_LNG Max		
Green Evolution_LY Max		
Green Evolution_NO Max		
Green Evolution_RU Max		
Green Evolution_AZ Min		
Green Evolution_DZ Min		
Green Evolution_LNG Min		
Green Evolution_LY Min		
Green Evolution_NO Min		
Green Evolution_RU Min		

Green Evolution_Import Price Spread		
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Mitigation in Disrupted Demand - Peak day (1-20)	LOW	Advanced
Design case - None		
Design case - Belarus		
Design case - Ukraine		

Mitigation in Disrupted Demand - 2-Weeks (1-20)	LOW	Advanced
2-Weeks case - None		
2-Weeks case - Belarus		
2-Weeks case - Ukraine		

Mitigation in N-1 for ESW-CBA (1-20)	LOW	Advanced
Green Evolution_N-1		

Gasification	LOW	Advanced
Green Evolution_Gasification		

Green Revolution

EU Bill improvement	LOW	Advanced
EU Green Revolution_Balanced		
EU Green Revolution_AZ Max		
EU Green Revolution_DZ Max		
EU Green Revolution_LNG Max		
EU Green Revolution_LY Max		
EU Green Revolution_NO Max		
EU Green Revolution_RU Max		
EU Green Revolution_AZ Min		
EU Green Revolution_DZ Min		
EU Green Revolution_LNG Min		
EU Green Revolution_LY Min		
EU Green Revolution_NO Min		
EU Green Revolution_RU Min		

EU Green Revolution_Import Price Spread		
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Mitigation in Disrupted Demand - Peak day (1-20)	LOW	Advanced
Design case - None		
Design case - Belarus		
Design case - Ukraine		

Mitigation in Disrupted Demand - 2-Weeks (1-20)	LOW	Advanced
2-Weeks case - None		
2-Weeks case - Belarus		
2-Weeks case - Ukraine		

Mitigation in N-1 for ESW-CBA (1-20)	LOW	Advanced
EU Green Revolution_N-1		

Gasification	LOW	Advanced
EU Green Revolution_Gasification		

Gasification Input

General note: if your project does not allow "gasification" do not try to fill the below cells. They will not be considered anyway in the calculation of the NPV and other indicators.

- Data for gas demand in newly to be gasified areas is collected separately from the existing gas demand. "Gasification demand" depends on certain projects to be enabled.
 - The benefits from gasification can be summed up with the other benefits measured by the modelled PS-CBA.
 - More details on "gasification" demand available in TYNDP 2017 Annex C2.

promoters to fill the cell
pre-filled cells (change not allowed to promoters)
interpolation

ATTENTION: in the tables below please indicate the value only for the simulated years (the ones in blue). The file will then interpolate.

1. **Fuel switch:** promoter to provide the value in EUR/GWh of net savings from the switch to gas from more polluting fuels (e.g. the net saving from gas replacing oil in the residential sector).
 The unit value provided in EUR/GWh will be multiplied by the gasification demand filled automatically by ENTSG.
2. **CO2 costs savings:** promoter to provide the value in EUR/GWh of net savings from the reduction of CO2 emissions due to replacement of more polluting fossil fuels.
 The unit value provided in EUR/GWh will be multiplied by the gasification demand filled automatically by ENTSG (e.g. the net saving from gas replacing the more polluting oil or coal in different sectors, from transport to power)
3. **Other monetized benefits:** promoter to provide the value in EUR/GWh of the other benefits associated at the gasification of the considered area.
 The unit value provided in EUR/GWh will be multiplied by the gasification demand filled automatically by ENTSG.

Gasification Demand (no distinction per scenarios)	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
Gasification Demand (ENTSG TYNDP data) *	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00

* When modelling the network the provided demand data have been adjusted if exceeding the enabled projects.

EU Green Revolution		2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
1. Fuel switch (EUR/GWh)	EUR/Gwh (cost other fuels) - EUR/GWh (cost gas)		0	0		0	0	0	0		0	0	0	0		0	0	0	0	
2. CO2 savings (EUR/GWh)	EUR/Gwh of saved CO2		0	0		0	0	0	0		0	0	0	0		0	0	0	0	
3. Other monetized benefits (EUR/GWh)			0	0		0	0	0	0		0	0	0	0		0	0	0	0	

Total gasification effect	Million EUR Per Year																			
Total gasification effect	Million EUR Per Year (discounted to 2017)																			

COMPULSORY

For the promoter: please justify the assumptions underlying to the monetization of gas replacing other fuels

COMPULSORY

For the promoter: please justify the assumptions underlying to the monetization of reduced CO2 emissions thanks to gasification

COMPULSORY

For the promoter: please justify the assumptions underlying to the monetization of "other benefits"