

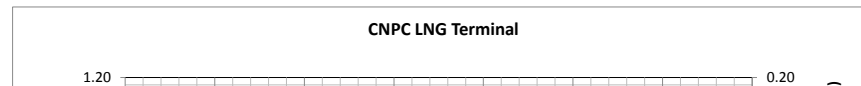
Bangladesh New Floating LNG Receiving & Regasification Terminal for 1076mmscf

Description	Values	Unit		
Work Start Year	2018	Years		
Operating Year	2021	Years		
Location of Regasification	New Floating	<--New Floating, GBS, Conversion Floating, Onshore		
Site and Contry for Project	Bangladesh			
Sensitivity of Golobal Financial Crisis	2050	Years- Active Crisis Year, Otherwise = 0		
Type of Generator	Conventional CC	Single Unit Advanced PC		
NG Sales Cost	4.52	USD/mmbtu =452.456USD/mmbtu	Add 0.45USD/mmbtu	
Assumed Standard Gas Flow	1076	mmscfd at 288.716°K on 1.013bar	15.556°C	1.013250274bar
Assumed Normal Gas Flow	1018.03	mmNcfd at 273.16°K on 1.013bar	0°C	1.013250274bar
Assumed Operating conditions	10.88	mmcfd at 288.16°K on 100bar	15°C	100bar
Required MW Electric Power for Regas Operating System	32.28	MW - for operation of system 0.03MW/mmscfd		
Efficiency of power generator	48%			
Power Plant Factor	85%	Plant Factor 85% - 90% for net calorific of Gas rang		
Required LNG	7.502	Mtpa		
Theoretical Power Capacity	5,936	MW (=MWh/h)-Set of 2 Turbine and 1 steam gene		
Rate of kwh per 1mmbtu	121.57	kwh/mmbtu		
Storage Tank Capacity	728,816	m³ -15 days return Loading Time		
Charter of LNGC Class	170,000	m³ -4.5 Sets Charter	4.29	
Assumed LNG Density	470	kg/m³		
Claculated British thermal unit	427,693,860	mmbtu/year		
Storage/mmc	66	Storage(m³)/(mmscfd*0.3048³*365)		
Initial Inflation of Fuel Natural Gas Price	0	%		
Fuel Natural Gas Unit Price	3.83	USD/mmbtu in Years		
LNGC Charter Vessel Type	DE	"Steam vessels(=SV)" or "Diesel electric(DE)"		
Vessel Spped	19.5	knots		
Transportation Distance	10000	km		
LNGC Charter Price	104,595,103	USD/year		
Yearly NG Sale Cost	1,935,124,824	USD/Year		
Unit CAPEX of Regasification	110.00	\$/tonne and Storage/mmc is 163.8\$/tonne		
Regasification Equipment Area	1061.89	m²- Floating Storage Structure		
Facilities Area	10618.86	m²- Floating Storage Structure		
LNG Storage Area	L x86.3B x47.5D x20.2	- Floating Storage Tank		
Unit Space Acquisition Cost	0	USD/m³ in Bangladesh		
CAPEX of Area Acquisition Cost	0	USD		
CAPEX of Old LNGC(Purchased Price)	0	USD for 10Years Old [857.430,000USD New LNGC]	Design Life=25Yrs	
CAPEX for LNG Terminal	825,188,166	USD - 팔억이천오백십팔만팔천일백육십육		
CAPEX for improvement of soft seabed(GBS) Depth=10.0m	0	USD only for GBS Type 136.83USD/m3	60% Replacement	
CAPEX for Break Water Length is 800m	80,000,000	USD 100,000USD/m		
CAPEX for Berthing Dolphine 170k DWT x 1 set	30,000,000	USD 176,471k DWT		
CAPEX for Trestle and Piers of Pipe x 24.00inch x 0m	0	USD 13,274USD/m		
CAPEX for Cryogenic Pipe x 24.00inch x 0m	0	USD 737USD/m		
CAPEX for subsea Cryogenic Pipe x 24.00inch x 0m	0	USD 20,202USD/m		
CAPEX for subsea Gas Pipe x 24.00inch x 2,000m	20,202,132	USD 10,101USD/m		
CAPEX for onshore Gas Pipe x 24.00inch x 1,000m	491,595	USD 492USD/m		
CAPEX for Spur Transmission Line Length is 0km	0	USD -294Kv --Quintup 5 - Circuit		
CAPEX for Bulk Transmission Line is 0km	0	USD 294Kv --Quintuple Circuit		
CAPEX for Grid Connection(Point Of Interconnector 0 Sets)	0	USD, Gas=114\$/kw, Goal,Nuclear=227\$/kw, Solar=		
Total CAPEX for Construction and Fabrication	955,881,893	USD - 구억오천오백팔십팔만일천팔백구십삼		
Construction and Fabrication Period	3	Years		
Interest FEE during Construction and Fabrication	93,198,485	USD		
TOTAL CAPEX AND INTREST FEE DURING CONSTRUCTION	1,049,080,378	USD - 일십억사천구백팔만삼백칠십팔달러		
Fixed and Various OPEX	73,820,667	USD/Year		
Total cost of purchased Natural Gas	1,742,662,587	USD/Year(including transportation)		
Fund Intrest	6.5	%		
Return rate on investment of Net Profit, r	3	%		
Operating Periods	15	Years		
Project Design Life	50	Years		
Benefit Cost Ratio (B/C)	1.04	< 1.1 N.G For 15Years Operating		
IRR(Internal Rate of Return)	8.8%	> 0 GOOD For 15Years Operating		

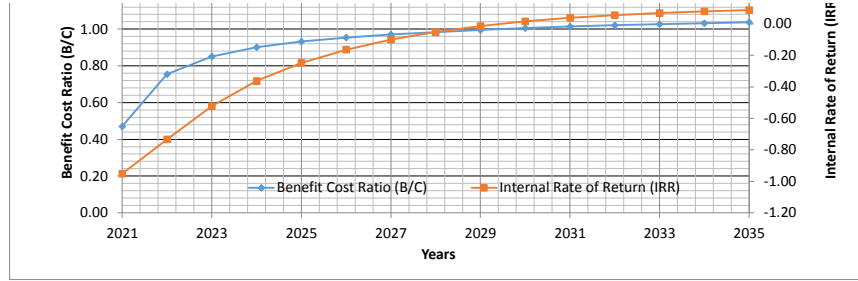
Storage	Length	Breadth	Depth	Draft
728,816m³	490.9m	86.3m	47.5m	20.2m
0m³	바골셀			

해 찾기

Storage	Nos of Tank	Diameters	Center Gap	Edge gap	Required Space
728,816m³	2	83.8m	0.5D	0.5D	49,157.1m²



NPV(Net Present Value)	1,112,688,141	USD with Asset value of Project for 15Years
Inflation of LNG Purchase Price	0	%, if Inflation = 0, the LNG Unit price shall be quoted Forecast Price, otherwise consider inflation based on 2021Years Sale Cost, if no consider Inflation, the value=10E-11
1. Natural Gas Re-Sale Price is applicable Based on inflation of LNG Forecast Price	1	<-- 0 : Not Applicable, 1 : Applicable of LNG Forecast Price
2. Natural Gas Re-Sale Price Inflation to be considered in yeras(Increased Previous Inflation)	from 2021Years to 2025 Years	0 % from 1Years to 5 Years
	from 2026Years to 2030 Years	0 % from 6Years to 10 Years
	from 2031Years to 2035 Years	0 % from 11Years to 15 Years
	from 2036Years to 2040 Years	0 % from 16Years to 20 Years
	from 2041Years to 2035 Years	0 % from 21Years to 15 Years
Income tax rate for government	20	%
Inflation of Space Acquisition	1	%
First Project residual value	603,161,474	USD after 10 Years
Second Project residual value	239,926,355	USD after 30 Years
Final residual value on Design Life	95,588,189	USD after 50 Years
Net Payback Turn Over Periods	9.016	Years



Actual Payback turn Over Years	10Years	10Years	해 찾기
Initial Value(min 0%, max 10%)	2.978%	2.978%	0
Limit of Initial Value	≤ 10%	≤ 10%	Good

End of Year	①% of Return of Equity	②% of Return of FUND	③Return of Equity (USD)	④Return of FUND(USD)	⑤Remain Cost(USD)	⑥Fund Interest 6.5%(USD)	⑦OPEX(USD)	⑧Yearly Revenue(USD) W/ Inflation	⑨Yearly Purchase Price of Natural Gas(USD) W/ Inflation	⑩(순이익)Net Profit(USD)	⑪(현재 자산가치)Asset value=Residual Value(USD)	⑫(순현재가치)Net Present Value	⑬Benefit Cost Ratio (B/C)	⑭(내부수익률)Internal Rate of Return (IRR)
			20% of Equity	80% of FUND										
2021	2.98%	2.98%	6,248,709	24,994,836	1,049,080,378	68,190,225	73,820,667	1,935,124,824	1,742,662,587	19,207,801	913,030,874	-970,969,407	0.47	-0.95
2022	4.54%	4.54%	9,522,686	38,090,746	1,017,836,833	66,159,394	73,820,667	1,990,702,822	1,789,708,912	13,400,417	871,764,286	-915,133,092	0.75	-0.73
2023	6.10%	6.10%	12,796,664	51,186,656	970,223,401	63,064,521	73,820,667	2,051,333,365	1,841,032,175	9,432,682	832,573,129	-849,903,925	0.85	-0.52
2024	7.66%	7.66%	16,070,641	64,282,565	906,240,081	58,905,605	73,820,667	2,122,068,998	1,900,909,315	8,080,203	795,293,735	-773,620,489	0.90	-0.36
2025	9.22%	9.22%	19,344,619	77,378,475	825,886,875	53,682,647	73,820,667	2,172,594,450	1,943,678,701	4,689,341	759,926,105	-688,689,171	0.93	-0.25
2026	10.78%	10.78%	22,618,596	90,474,385	729,163,781	47,395,646	73,820,667	2,243,330,083	2,003,555,842	5,464,947	725,514,357	-592,290,726	0.95	-0.16
2027	12.34%	12.34%	25,892,574	103,570,295	616,070,799	40,044,602	73,820,667	2,314,065,717	2,063,432,982	7,304,597	693,014,372	-484,325,226	0.97	-0.10
2028	13.90%	13.90%	29,166,551	116,666,205	486,607,930	31,629,515	73,820,667	2,384,801,350	2,123,310,123	10,208,289	661,470,270	-364,732,758	0.98	-0.05
2029	15.46%	15.46%	32,440,529	129,762,115	340,775,174	22,150,386	73,820,667	2,455,536,983	2,183,187,263	14,176,023	631,837,931	-233,490,465	1.00	-0.01
2030	17.02%	17.02%	35,714,506	142,858,025	178,572,531	11,607,215	73,820,667	2,526,272,616	2,243,064,403	19,207,801	603,161,474	-90,609,746	1.01	0.02
2031	0.00%	0.00%	0	0	0	0	73,820,667	2,547,460,709	2,260,999,952	212,640,090	576,396,781	58,531,735	1.01	0.04
2032	0.00%	0.00%	0	0	0	0	73,820,667	2,568,648,802	2,278,935,501	215,892,634	550,587,970	205,544,113	1.02	0.06
2033	0.00%	0.00%	0	0	0	0	73,820,667	2,589,836,895	2,296,871,050	219,145,178	525,735,041	350,424,892	1.03	0.07
2034	0.00%	0.00%	0	0	0	0	73,820,667	2,611,024,988	2,314,806,599	222,397,722	501,837,994	493,173,527	1.03	0.08
2035	0.00%	0.00%	0	0	0	0	73,820,667	2,632,213,081	2,332,742,148	225,650,266	478,896,828	633,791,313	1.04	0.09
2036	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2037	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2038	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2039	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2040	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2041	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2042	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2043	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2044	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2045	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2046	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2047	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2048	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2049	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2050	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2051	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2052	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2053	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2054	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2055	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2056	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2057	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2058	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2059	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00

2060	40	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2061	41	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2062	42	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2063	43	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2064	44	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2065	45	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2066	46	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2067	47	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2068	48	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2069	49	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2070	50	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
	Summation	100%	100%	209,816,076	839,264,302	7,120,457,782	462,829,756	1,107,310,006	35,145,015,684	31,318,897,555	1,206,897,989	478,896,828	1,112,688,141	1.04	0.09

Natural Gas Markets Prices and FSRU or Onshore LNG Terminal CAPEX is referred to David Carroll(President of the International Gas Union), 2016, "IGU World Gas LNG Report", LNG 18 Conference & Exhibition Edition, pp.52 to pp.53
CAPEX of Power types and Environmental Emissions are referred to U.S. Energy Information Administration, 2013, "Updated Capital Cost Estimates for Utility Scale Electricity Generating Plants", pp.2-10, Table 2-5 Technology Performance Specifications

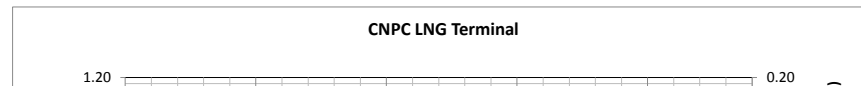
Bangladesh Onshore LNG Receiving & Regasification Terminal for 150mmscf

Description	Values	Unit		
Work Start Year	2018	Years		
Operating Year	2021	Years		
Location of Regasification	Onshore	<--New Floating, GBS, Conversion Floating, Onshore		
Site and Contry for Project	Bangladesh			
Sensitivity of Golobal Financial Crisis	0	Years- Active Crisis Year, Otherwise = 0		
Type of Generator	Conventional CC v	Single Unit Advanced PC		
NG Sales Cost	4.77	USD/mmbtu =477.078US\$/mmbtu	Add 0.7USD/mmbtu	
Assumed Standard Gas Flow	150	mmscfd at 288.716°K on 1.013bar	15.556°C	1.013250274bar
Assumed Normal Gas Flow	141.92	mmNcfd at 273.16°K on 1.013bar	0°C	1.013250274bar
Assumed Operating conditions	1.52	mmcfd at 288.16°K on 100bar	15°C	100bar
Required MW Electric Power for Regas Operating System	4.50	MW - for operation of system 0.03MW/mmscfd		
Efficiency of power generator	48%			
Power Plant Factor	85%	Plant Factor 85% - 90% for net calorific of Gas rang		
Required LNG	1.046	Mtpa		
Theoretical Power Capacity	828	MW (=MWh/h)-Set of 2 Turbine and 1 steam gene		
Rate of kwh per 1mmbtu	121.62	kwh/mmbtu		
Storage Tank Capacity	101,600	m³ -15 days return Loading Time		
Charter of LNGC Class	105,000	m³ -1 Sets Charter	0.97	
Assumed LNG Density	470	kg/m³		
Claculated British thermal unit	59,622,750	mmbtu/year		
Storage/mmc	66	Storage(m³)/(mmscfd*0.3048³*365)		
Initial Inflation of Fuel Natural Gas Price	0	%		
Fuel Natural Gas Unit Price	3.83	USD/mmbtu in Years		
LNGC Charter Vessel Type	DE	"Steam vessels(=SV)" or "Diesel electric(DE)"		
Vessel Sppeed	19.5	knots		
Transportation Distance	10000	km		
LNGC Charter Price	14,356,191	USD/year		
Yearly NG Sale Cost	284,447,248	USD/year		
Unit CAPEX of Regasification	235.00	\$/tonne and Storage/mmc is 163.8\$/tonne		
Regasification Equipment Area	148.03	m²- Land Area		
Facilities Area	1480.32	m²- Land Area		
LNG Storage Area	13306.72	m²- Land Storage Tank		
Unit Space Acquisition Cost	10	USD/m² in Bangladesh		
CAPEX of Area Acquisition Cost	149,351	USD		
CAPEX of Old LNGC(Purchased Price)	0	USD for 10Years Old [119,530,000USD New LNGC]	Design Life=25Yrs	
CAPEX for LNG Terminal	245,757,713	USD - 이익사전오백십오만원천칠백십삼		
CAPEX for improvement of soft seabed(GBS) Depth=10.0m	0	USD only for GBS Type 136.83USD/m3	60% Replacement	
CAPEX for Break Water Length is 0m	0	USD 100,000USD/m		
CAPEX for Berthing Dolphine 105k DWT x 1 set	18,529,412	USD 176,471k DWT		
CAPEX for Trestle and Piers of Pipe x 12.00inch x 1,500m	19,357,348	USD 12,905USD/m		
CAPEX for Cryogenic Pipe x 12.00inch x 0m	0	USD 184USD/m		
CAPEX for subsea Cryogenic Pipe x 12.00inch x 0m	0	USD 5,051USD/m		
CAPEX for subsea Gas Pipe x 12.00inch x 0m	0	USD 2,525USD/m		
CAPEX for onshore Gas Pipe x 12.00inch x 1,200m	147,479	USD 123USD/m		
CAPEX for Spur Transmission Line Length is 0km	0	USD -167.8Kv --Doubl 2 - Circuit		
CAPEX for Bulk Transmission Line is 0km	0	USD 167.8Kv --Double Circuit		
CAPEX for Grid Connection(Point Of Interconnector 0 Sets)	0	USD, Gas=114\$/kw, Goal,Nuclear=227\$/kw, Solar=		
Total CAPEX for Construction and Fabrication	283,941,302	USD - 이익팔천삼백구십사만원천칠백이십팔		
Construction and Fabrication Period	3	Years		
Interest FEE during Construction and Fabrication	27,698,839	USD		
TOTAL CAPEX AND INTREST FEE DURING CONSTRUCTION	311,640,141	USD - 삼억일천일백육십사만일백사십일달러		
Fixed and Various OPEX	15,781,317	USD/year		
Total cost of purchased Natural Gas	242,711,323	USD/year(including transportation)		
Fund Intrest	6.5	%		
Return rate on investment of Net Profit, r	3	%		
Operating Periods	25	Years		
Project Design Life	50	Years		
Benefit Cost Ratio (B/C)	1.06	< 1.1 N.G For 25Years Operating		
IRR(Internal Rate of Return)	6.9%	> 0 GOOD For 25Years Operating		

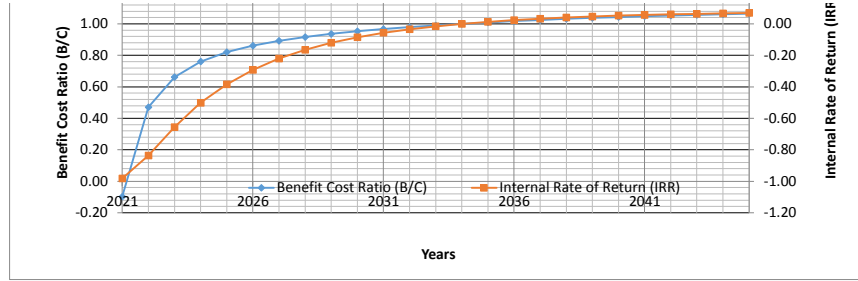
Storage	Length	Breadth	Depth	Draft
101,600m³	254.5m	44.7m	24.7m	10.5m
0m³	바골셀			

해 찾기

Storage	Nos of Tank	Diameters	Center Gap	Edge gap	Required Space
101,600m³	2	43.6m	0.5D	0.5D	13,306.7m²



NPV(Net Present Value)	306,137,692	USD with Asset value of Project for 25Years
Inflation of LNG Purchase Price	0	% , if Inflation = 0, the LNG Unit price shall be quoted Forecast Price, otherwise consider Inflation based on 2021Years Sale Cost, if no consider Inflation, the value=10E-11
1. Natural Gas Re-Sale Price is applicable Based on inflation of LNG Forecast Price	1	<-- 0 : Not Applicable, 1 : Applicable of LNG Forecast Price
2. Natural Gas Re-Sale Price Inflation to be considered in yeras(Increased Previous Inflation)	from 2021Years to 2025 Years	0 % from 1Years to 5 Years
	from 2026Years to 2030 Years	0 % from 6Years to 10 Years
	from 2031Years to 2035 Years	0 % from 11Years to 15 Years
	from 2036Years to 2040 Years	0 % from 16Years to 20 Years
	from 2041Years to 2045 Years	0 % from 21Years to 25 Years
Income tax rate for government	20	%
Inflation of Space Acquisition	1	%
First Project residual value	179,237,697	USD after 10 Years
Second Project residual value	71,433,082	USD after 30 Years
Final residual value on Design Life	28,624,822	USD after 50 Years
Net Payback Turn Over Periods	13.017	Years



Actual Payback turn Over Years	15Years	15Years	해 찾기
Initial Value(min 0%, max 6.667%)	0.589%	0.589%	Good
Limit of Initial Value	≤ 6.667%	≤ 6.667%	

End of Year	①% of Return of Equity	②% of Return of FUND	③Return of Equity (USD)	④Return of FUND(USD)	⑤Remain Cost(USD)	⑥Fund Interest 6.5%(USD)	⑦OPEX(USD)	⑧Yearly Revenue(USD) W/ Inflation	⑨Yearly Purchase Price of Natural Gas(USD) W/ Inflation	⑩(순이익)Net Profit(USD)	⑪(현재 자산 가치)Asset value=Residual Value(USD)	⑫(순현재 가치)Net Present Value	⑬Benefit Cost Ratio (B/C)	⑭(내부수익률)Internal Rate of Return (IRR)
			20% of Equity	80% of FUND										
2021	1	0.59%	367,097	1,468,389	311,640,141	20,256,609	15,781,317	284,447,248	242,711,323	3,862,513	271,220,749	-297,192,333	-0.10	-0.98
2022	2	1.46%	908,255	3,633,020	309,804,654	20,137,303	15,781,317	292,616,751	249,269,826	2,887,031	258,970,612	-290,394,381	0.47	-0.84
2023	3	2.33%	1,449,413	5,797,651	305,263,379	19,842,120	15,781,317	301,528,937	256,424,556	2,233,880	247,336,666	-281,970,684	0.66	-0.66
2024	4	3.19%	1,990,571	7,962,283	298,016,315	19,371,060	15,781,317	311,926,486	264,771,741	2,049,515	236,270,318	-271,617,336	0.76	-0.50
2025	5	4.06%	2,531,728	10,126,914	288,063,462	18,724,125	15,781,317	319,353,307	270,734,016	1,455,207	225,771,570	-259,797,209	0.82	-0.38
2026	6	4.93%	3,072,886	12,291,545	275,404,819	17,901,313	15,781,317	329,750,857	279,081,201	1,622,595	215,556,630	-245,985,203	0.86	-0.29
2027	7	5.80%	3,614,044	14,456,176	260,040,388	16,902,625	15,781,317	340,148,406	287,428,386	1,965,858	205,909,289	-230,168,537	0.89	-0.22
2028	8	6.67%	4,155,202	16,620,807	241,970,168	15,728,061	15,781,317	350,545,956	295,775,571	2,484,998	196,545,756	-212,340,912	0.92	-0.16
2029	9	7.53%	4,696,360	18,785,439	221,194,158	14,377,620	15,781,317	360,943,505	304,122,756	3,180,014	187,749,822	-192,502,020	0.94	-0.12
2030	10	8.40%	5,237,517	20,950,070	197,712,360	12,851,303	15,781,317	371,341,055	312,469,941	4,050,907	179,237,697	-170,657,088	0.95	-0.08
2031	11	9.27%	5,778,675	23,114,701	171,524,773	11,149,110	15,781,317	374,455,528	314,970,250	3,661,475	171,293,172	-147,823,770	0.97	-0.06
2032	12	10.14%	6,319,833	25,279,332	142,631,396	9,271,041	15,781,317	377,570,002	317,470,558	3,447,920	163,632,456	-123,958,411	0.98	-0.03
2033	13	11.01%	6,860,991	27,443,964	111,032,231	7,217,095	15,781,317	380,684,475	319,970,867	3,410,241	156,255,548	-99,024,223	0.99	-0.02
2034	14	11.88%	7,402,149	29,608,595	76,727,276	4,987,273	15,781,317	383,798,948	322,471,176	3,548,439	149,162,449	-72,990,827	1.00	0.00
2035	15	12.74%	7,943,307	31,773,226	39,716,533	2,581,575	15,781,317	386,913,422	324,971,485	3,862,513	142,353,159	-45,833,807	1.01	0.01
2036	16	0.00%	0	0	0	0	15,781,317	389,948,540	327,408,087	46,759,136	136,111,470	-17,543,761	1.02	0.02
2037	17	0.00%	0	0	0	0	15,781,317	392,983,659	329,844,690	47,357,652	130,153,590	10,273,868	1.03	0.03
2038	18	0.00%	0	0	0	0	15,781,317	396,018,777	332,281,292	47,956,168	124,195,728	37,622,601	1.03	0.04
2039	19	0.00%	0	0	0	0	15,781,317	399,053,895	334,717,895	48,554,684	118,521,676	64,506,152	1.04	0.05
2040	20	0.00%	0	0	0	0	15,781,317	402,089,014	337,154,497	49,153,199	113,131,433	90,928,418	1.04	0.05
2041	21	0.00%	0	0	0	0	15,781,317	405,124,132	339,591,100	49,751,715	108,025,000	116,893,466	1.05	0.06
2042	22	0.00%	0	0	0	0	15,781,317	408,159,251	342,027,702	50,350,231	103,202,378	142,405,512	1.05	0.06
2043	23	0.00%	0	0	0	0	15,781,317	411,194,369	344,464,305	50,948,747	98,663,565	167,468,920	1.06	0.06
2044	24	0.00%	0	0	0	0	15,781,317	414,229,487	346,900,907	51,547,263	94,124,772	192,088,180	1.06	0.07
2045	25	0.00%	0	0	0	0	15,781,317	417,264,606	349,337,509	52,145,779	89,869,789	216,267,903	1.06	0.07
2046	26	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2047	27	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2048	28	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2049	29	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2050	30	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2051	31	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2052	32	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2053	33	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2054	34	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2055	35	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2056	36	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2057	37	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2058	38	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2059	39	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00

2060	40	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2061	41	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2062	42	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2063	43	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2064	44	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2065	45	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2066	46	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2067	47	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2068	48	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2069	49	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2070	50	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
	Summation	100%	100%	62,328,028	249,312,112	3,250,742,052	211,298,233	394,532,926	9,202,090,615	7,746,371,635	538,247,679	89,869,789	306,137,692	1.06	0.07

Natural Gas Markets Prices and FSRU or Onshore LNG Terminal CAPEX is referred to David Carroll(President of the International Gas Union), 2016, "IGU World Gas LNG Report", LNG 18 Conference & Exhibition Edition, pp.52 to pp.53
CAPEX of Power types and Environmental Emissions are referred to U.S. Energy Information Administration, 2013, "Updated Capital Cost Estimates for Utility Scale Electricity Generating Plants", pp.2-10, Table 2-5 Technology Performance Specifications

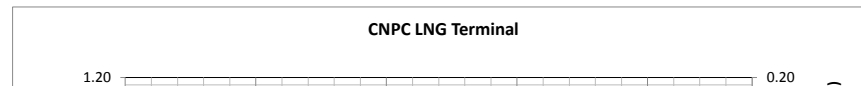
Bangladesh New Floating LNG Receiving & Regasification Terminal for 150mmcsfd

Description	Values	Unit		
Work Start Year	2018	Years		
Operating Year	2021	Years		
Location of Regasification	New Floating	<--New Floating, GBS, Conversion Floating, Onshore		
Site and Contry for Project	Bangladesh			
Sensitivity of Golobal Financial Crisis	2050	Years- Active Crisis Year, Otherwise = 0		
Type of Generator	Conventional CC	Single Unit Advanced PC		
NG Sales Cost	4.52	USD/mmbtu =451.751US\$/mmbtu	Add 0.45USD/mmbtu	
Assumed Standard Gas Flow	150	mmscfd at 288.716°K on 1.013bar	15.556°C	1.013250274bar
Assumed Normal Gas Flow	141.92	mmNcfd at 273.16°K on 1.013bar	0°C	1.013250274bar
Assumed Operating conditions	1.52	mmcfd at 288.16°K on 100bar	15°C	100bar
Required MW Electric Power for Regas Operating System	4.50	MW - for operation of system 0.03MW/mmscfd		
Efficiency of power generator	48%			
Power Plant Factor	85%	Plant Factor 85% - 90% for net calorific of Gas rang		
Required LNG	1.046	Mtpa		
Theoretical Power Capacity	828	MW (=MWh/h)-Set of 2 Turbine and 1 steam gene		
Rate of kwh per 1mmbtu	121.62	kwh/mmbtu		
Storage Tank Capacity	142,241	m³ -21 days return Loading Time		
Charter of LNGC Class	145,000	m³ -1 Sets Charter	0.98	
Assumed LNG Density	470	kg/m³		
Claculated British thermal unit	59,622,750	mmbtu/year		
Storage/mmc	92	Storage(m³)/(mmscfd*0.3048³*365)		
Initial Inflation of Fuel Natural Gas Price	0	%		
Fuel Natural Gas Unit Price	3.83	USD/mmbtu in Years		
LNGC Charter Vessel Type	DE	"Steam vessels(=SV)" or "Diesel electric(DE)"		
Vessel Spped	19.5	knots		
Transportation Distance	10000	km		
LNGC Charter Price	14,160,868	USD/year		
Yearly NG Sale Cost	269,346,238	USD/year		
Unit CAPEX of Regasification	110.00	\$/tonne and Storage/mmc in 229.4\$/tonne		
Regasification Equipment Area	148.03	m²- Floating Storage Structure		
Facilities Area	1480.32	m²- Floating Storage Structure		
LNG Storage Area	L x50.1B x27.6D x11.7	- Floating Storage Tank		
Unit Space Acquisition Cost	0	USD/m³ in Bangladesh		
CAPEX of Area Acquisition Cost	0	USD		
CAPEX of Old LNGC(Purchased Price)	0	USD for 10Years Old [167,340,000USD New LNGC]	Design Life=25Yrs	
CAPEX for LNG Terminal	115,035,525	USD - 일억일천오백삼만오천오백이십오달러		
CAPEX for improvement of soft seabed(GBS) Depth=10.0m	0	USD only for GBS Type 136.83USD/m3	60% Replacement	
CAPEX for Break Water Length is 0m	0	USD 100,000USD/m		
CAPEX for Berthing Dolphine 145k DWT x 1 set	25,588,235	USD 176,471k DWT		
CAPEX for Trestle and Piers of Pipe x 12.00inch x 0m	0	USD 13,274USD/m		
CAPEX for Cryogenic Pipe x 12.00inch x 0m	0	USD 737USD/m		
CAPEX for subsea Cryogenic Pipe x 12.00inch x 0m	0	USD 20,202USD/m		
CAPEX for subsea Gas Pipe x 24.00inch x 2,000m	20,202,132	USD 10,101USD/m		
CAPEX for onshore Gas Pipe x 24.00inch x 1,000m	491,595	USD 492USD/m		
CAPEX for Spur Transmission Line Length is 0km	0	USD -167.8Kv --Doubl 2 - Circuit		
CAPEX for Bulk Transmission Line is 0km	0	USD 167.8Kv --Double Circuit		
CAPEX for Grid Connection(Point Of Interconnector 0 Sets)	0	USD, Gas=114\$/kw, Goal,Nuclear=227\$/kw, Solar=		
Total CAPEX for Construction and Fabrication	161,317,487	USD - 일억육천일백삼십일만칠천사백팔십칠달러		
Construction and Fabrication Period	3	Years		
Interest FEE during Construction and Fabrication	15,728,455	USD		
TOTAL CAPEX AND INTREST FEE DURING CONSTRUCTION	177,045,942	USD - 일억칠천칠백사만오천구백사십이달러		
Fixed and Various OPEX	10,290,985	USD/year		
Total cost of purchased Natural Gas	242,516,001	USD/year(including transportation)		
Fund Intrest	6.5	%		
Return rate on investment of Net Profit, r	3	%		
Operating Periods	25	Years		
Project Design Life	50	Years		
Benefit Cost Ratio (B/C)	1.05	< 1.1 N.G For 25Years Operating		
IRR(Internal Rate of Return)	9.4%	> 0 GOOD For 25Years Operating		

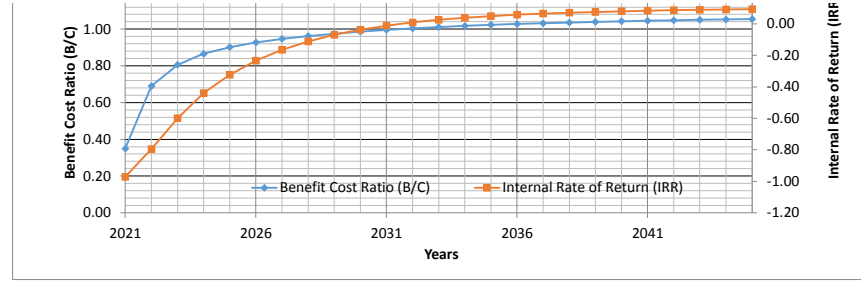
Storage	Length	Breadth	Depth	Draft
142,241m³	284.8m	50.1m	27.6m	11.7m
0m³	바골셀			

해 찾기

Storage	Nos of Tank	Diameters	Center Gap	Edge gap	Required Space
142,241m³	2	48.8m	0.5D	0.5D	16,670.1m²



NPV(Net Present Value)	263,266,126	USD with Asset value of Project for 25Years
Inflation of LNG Purchase Price	0	% , if Inflation = 0, the LNG Unit price shall be quoted Forecast Price, otherwise consider inflation based on 2021Years Sale Cost, if no consider Inflation, the value=10E-11
1. Natural Gas Re-Sale Price is applicable Based on inflation of LNG Forecast Price	1	<-- 0 : Not Applicable, 1 : Applicable of LNG Forecast Price
2. Natural Gas Re-Sale Price Inflation to be considered in yeras(Increased Previous Inflation)	from 2021Years to 2025 Years	0 % from 1Years to 5 Years
	from 2026Years to 2030 Years	0 % from 6Years to 10 Years
	from 2031Years to 2035 Years	0 % from 11Years to 15 Years
	from 2036Years to 2040 Years	0 % from 16Years to 20 Years
	from 2041Years to 2045 Years	0 % from 21Years to 25 Years
Income tax rate for government	20	%
Inflation of Space Acquisition	1	%
First Project residual value	101,791,334	USD after 10 Years
Second Project residual value	40,490,689	USD after 30 Years
Final residual value on Design Life	16,131,749	USD after 50 Years
Net Payback Turn Over Periods	11.013	Years



Actual Payback turn Over Years	12Years	12Years	해 찾기
Initial Value(min 0%, max 8.333%)	1.777%	1.777%	0
Limit of Initial Value	≤ 8.333%	≤ 8.333%	Good

End of Year	①% of Return of Equity	②% of Return of FUND	③Return of Equity (USD)	④Return of FUND(USD)	⑤Remain Cost(USD)	⑥Fund Interest 6.5%(USD)	⑦OPEX(USD)	⑧Yearly Revenue(USD) W/ Inflation	⑨Yearly Purchase Price of Natural Gas(USD) W/ Inflation	⑩(순이익)Net Profit(USD)	⑪(현재자산가치)Asset value=Residual Value(USD)	⑫(순현재가치)Net Present Value	⑬Benefit Cost Ratio (B/C)	⑭(내부수익률)Internal Rate of Return (IRR)
			20% of Equity	80% of FUND							⑪(현재자산가치)Asset value=Residual Value(USD)	⑫(순현재가치)Net Present Value		
2021	1	1.78%	629,341	2,517,362	177,045,942	11,507,986	10,290,985	269,346,238	242,516,001	1,884,564	154,085,821	-167,146,814	0.35	-0.97
2022	2	2.97%	1,051,418	4,205,671	173,899,240	11,303,451	10,290,985	277,082,031	249,074,503	1,156,003	147,121,548	-161,277,926	0.69	-0.79
2023	3	4.16%	1,473,495	5,893,980	168,642,151	10,961,740	10,290,985	285,521,078	256,229,233	671,644	140,507,531	-154,135,272	0.81	-0.60
2024	4	5.35%	1,895,572	7,582,290	161,274,675	10,482,854	10,290,985	295,366,632	264,576,418	538,513	134,216,149	-145,495,060	0.87	-0.44
2025	5	6.55%	2,317,650	9,270,599	151,796,813	9,866,793	10,290,985	302,999,171	270,538,693	114,451	128,247,402	-135,694,233	0.90	-0.32
2026	6	7.74%	2,739,727	10,958,908	140,208,564	9,113,557	10,290,985	312,244,725	278,885,878	255,670	122,439,973	-124,348,106	0.93	-0.23
2027	7	8.93%	3,161,804	12,647,217	126,509,929	8,223,145	10,290,985	322,090,280	287,233,063	534,064	116,955,178	-111,446,723	0.95	-0.16
2028	8	10.12%	3,583,882	14,335,527	110,700,907	7,195,559	10,290,985	331,935,834	295,580,248	949,633	111,631,701	-96,985,174	0.96	-0.11
2029	9	11.31%	4,005,959	16,023,836	92,781,499	6,030,797	10,290,985	341,781,389	303,927,433	1,502,378	106,630,859	-80,963,215	0.98	-0.07
2030	10	12.51%	4,428,036	17,712,145	72,751,704	4,728,861	10,290,985	351,626,943	312,274,618	2,192,297	101,791,334	-63,384,915	0.99	-0.04
2031	11	13.70%	4,850,114	19,400,454	50,611,523	3,289,749	10,290,985	354,576,072	314,774,927	1,969,843	97,274,445	-44,994,446	1.00	-0.01
2032	12	14.89%	5,272,191	21,088,764	26,360,955	1,713,462	10,290,985	357,525,201	317,275,236	1,884,564	92,918,873	-25,760,623	1.00	0.01
2033	13	0.00%	0	0	0	0	10,290,985	360,474,331	319,775,545	30,407,800	88,724,618	-5,657,484	1.01	0.03
2034	14	0.00%	0	0	0	0	10,290,985	363,423,460	322,275,854	30,856,621	84,691,681	14,148,206	1.02	0.04
2035	15	0.00%	0	0	0	0	10,290,985	366,372,589	324,776,163	31,305,441	80,820,061	33,656,722	1.02	0.05
2036	16	0.00%	0	0	0	0	10,290,985	369,246,576	327,212,765	31,742,826	77,271,076	52,861,654	1.03	0.06
2037	17	0.00%	0	0	0	0	10,290,985	372,120,563	329,649,368	32,180,210	73,883,409	71,764,136	1.03	0.07
2038	18	0.00%	0	0	0	0	10,290,985	374,994,550	332,085,970	32,617,595	70,495,742	90,365,495	1.04	0.07
2039	19	0.00%	0	0	0	0	10,290,985	377,868,537	334,522,572	33,054,980	67,269,392	108,667,235	1.04	0.08
2040	20	0.00%	0	0	0	0	10,290,985	380,742,524	336,959,175	33,492,364	64,204,360	126,671,032	1.04	0.08
2041	21	0.00%	0	0	0	0	10,290,985	383,616,512	339,395,777	33,929,749	61,300,645	144,378,713	1.05	0.08
2042	22	0.00%	0	0	0	0	10,290,985	386,490,499	341,832,380	34,367,134	58,558,248	161,792,256	1.05	0.09
2043	23	0.00%	0	0	0	0	10,290,985	389,364,486	344,268,982	34,804,518	55,977,168	178,913,773	1.05	0.09
2044	24	0.00%	0	0	0	0	10,290,985	392,238,473	346,705,585	35,241,903	53,396,088	195,745,502	1.05	0.09
2045	25	0.00%	0	0	0	0	10,290,985	395,112,460	349,142,187	35,679,288	50,976,326	212,289,800	1.05	0.09
2046	26	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2047	27	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2048	28	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2049	29	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2050	30	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2051	31	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2052	32	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2053	33	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2054	34	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2055	35	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2056	36	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2057	37	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2058	38	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2059	39	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00

2060	40	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2061	41	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2062	42	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2063	43	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2064	44	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2065	45	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2066	46	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2067	47	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2068	48	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2069	49	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2070	50	0.00%	0.00%	0	0	0	0	0	0	0	0	0	0	0.00	0.00
	Summation	100%	100%	35,409,188	141,636,754	1,452,583,901	94,417,954	257,274,630	8,713,561,154	7,741,488,577	443,334,052	50,976,326	263,266,126	1.05	0.09

Natural Gas Markets Prices and FSRU or Onshore LNG Terminal CAPEX is referred to David Carroll(President of the International Gas Union), 2016, "IGU World Gas LNG Report", LNG 18 Conference & Exhibition Edition, pp.52 to pp.53
CAPEX of Power types and Environmental Emissions are referred to U.S. Energy Information Administration, 2013, "Updated Capital Cost Estimates for Utility Scale Electricity Generating Plants", pp.2-10, Table 2-5 Technology Performance Specifications