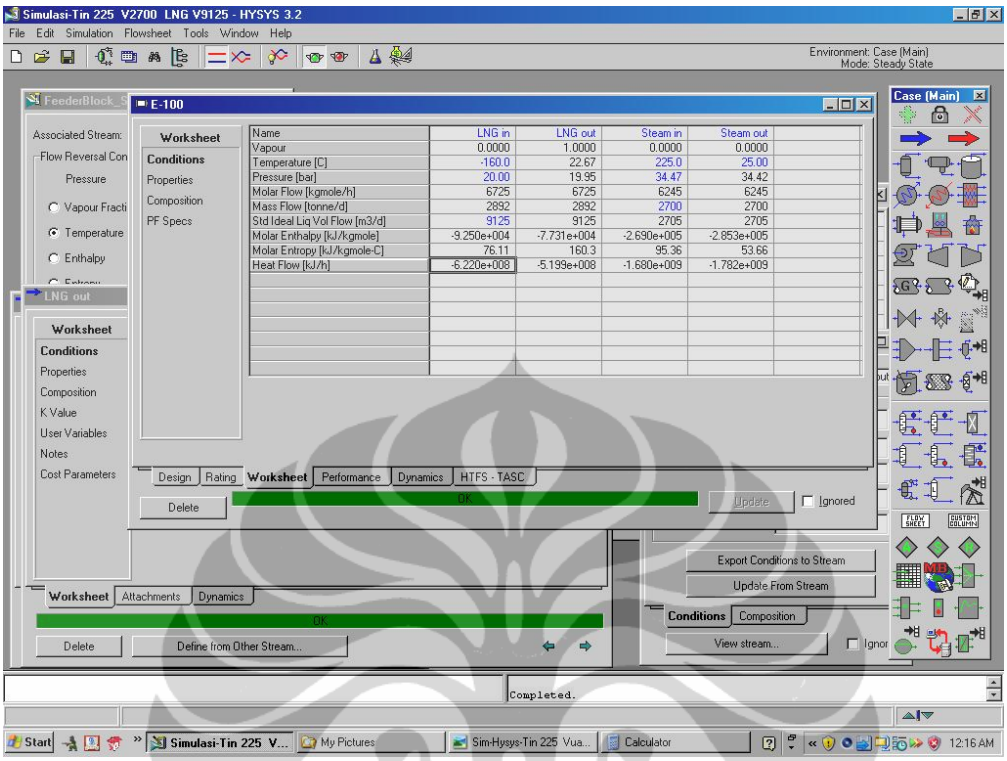
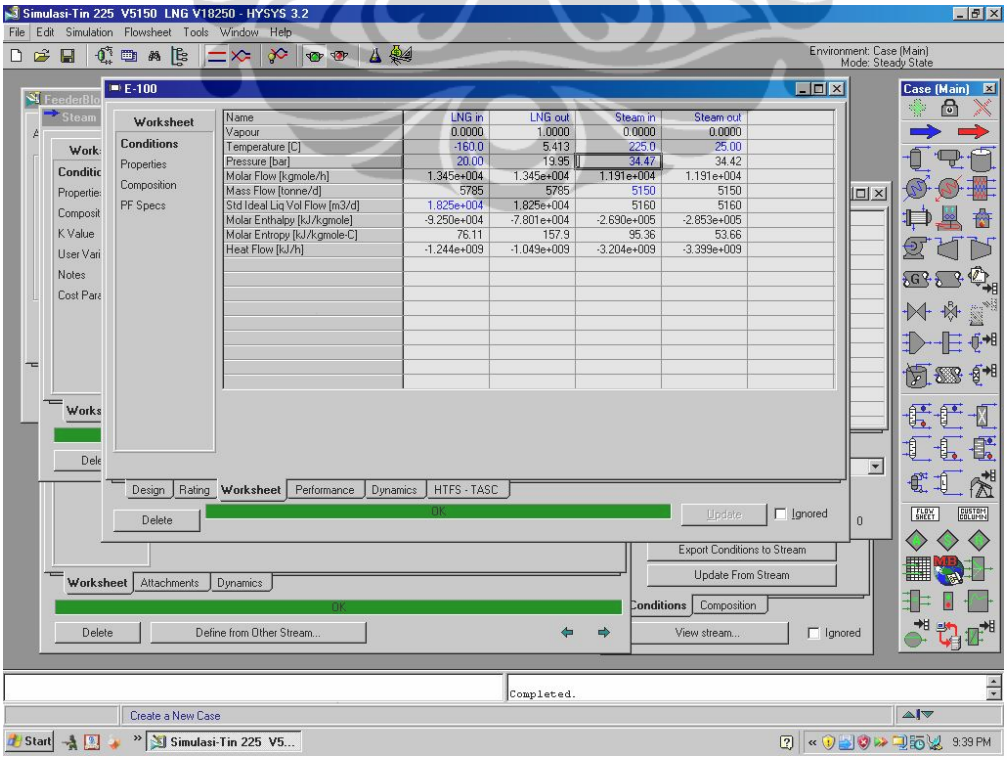
LAMPIRAN

Simulasi Perhitungan Hysys

Laju Alir LNG = 9125 m3/hari Laju Alr Steam = 2700 m3/hari



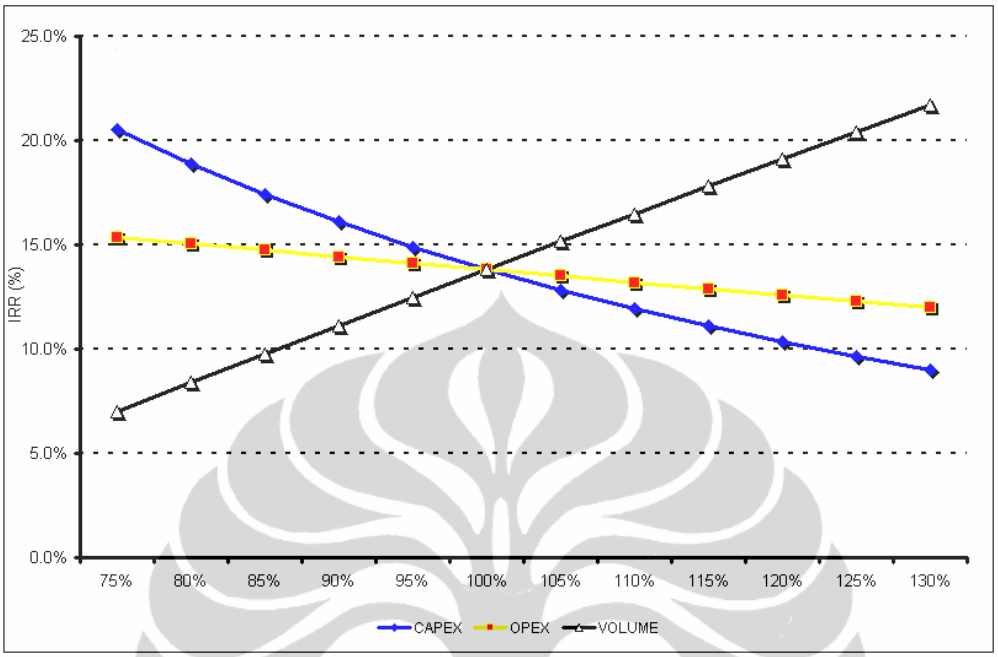
Laju Alir LNG = 18250 m3/hari Laju Alr Steam = 5100 m3/hari



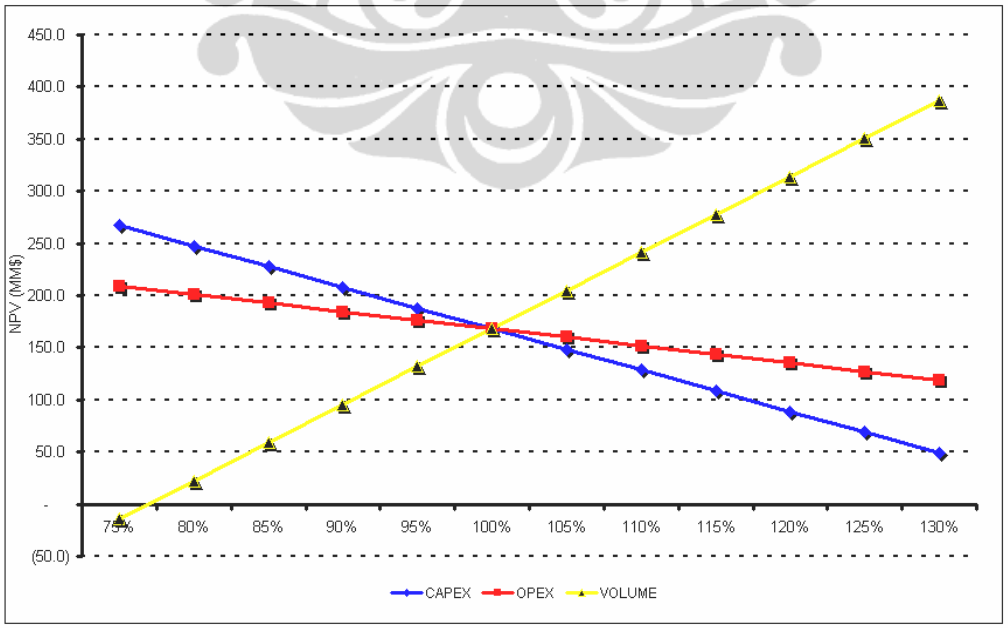
LAMPIRAN

Simulasi Perhitungan Keekonomian

Sensitivitas IRR (IRROE 13.82%)

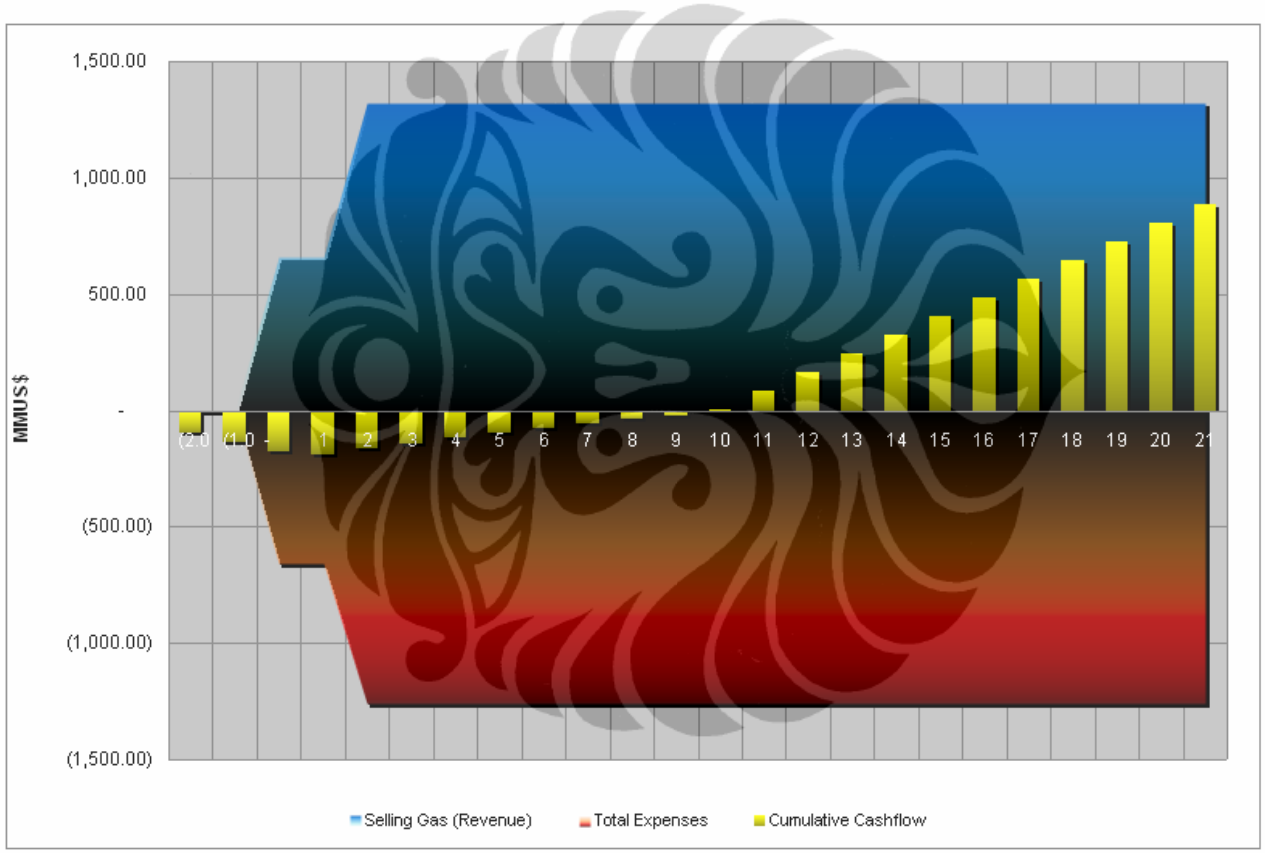


Sensitivitas NPV (IRROE 13.82%)



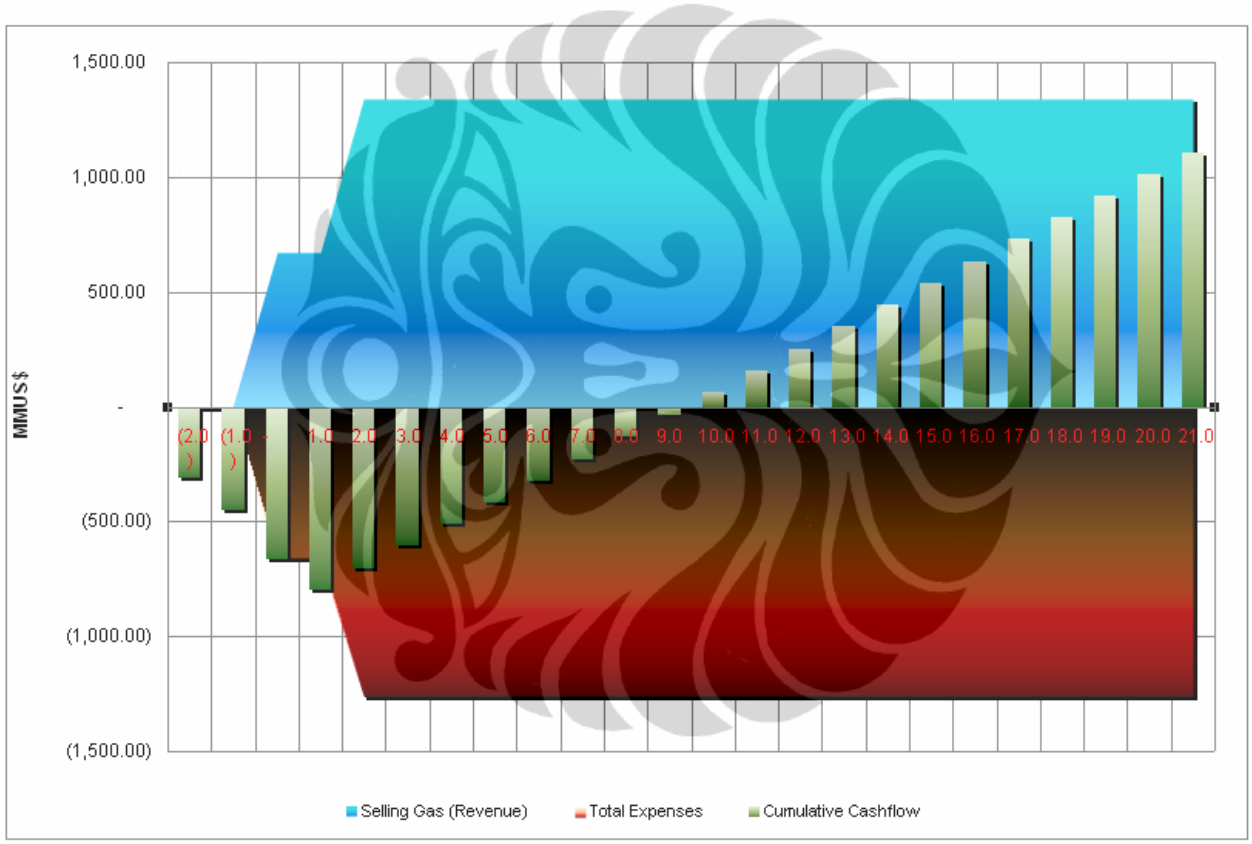
Cash Flow Profile

IRROE 13.82%



Cash Flow Profile

IRROI 8.26%



Cash Flow Calculation

IRROE 13.82%

Deskripsi	Skenario	Total	(2)	(1)	-	1	2	3	4	5	6	7	8	9	10
CAPEX		888.60 MM$	306.2	138.6	261.6	182.2	-	-	-	-	-	-	-	-	-
- Train 1															
LNG Receiving Terminal Construction Cost			305.2	130.8											
Pre-operation Cost				1.4											
Initial Working Capital				6.4											
- Train 2															
LNG Receiving Terminal Construction Cost					261.6	174.4									
Pre-operation Cost						1.4									
Initial Working Capital						6.4									
- Land Acquisition Cost			1.0												
Production															
- Train 1	76,650.0 mmscf	1,686,300.0 mmscf			76,650.0	76,650.0	76,650.0	76,650.0	76,650.0	76,650.0	76,650.0	76,650.0	76,650.0	76,650.0	76,650.0
- Train 2	76,650.0 mmscf	1,533,000.0 mmscf					76,650.0	76,650.0	76,650.0	76,650.0	76,650.0	76,650.0	76,650.0	76,650.0	76,650.0
Total			-	-	76,650,000.0	76,650,000.0	153,300,000.0	153,300,000.0	153,300,000.0	153,300,000.0	153,300,000.0	153,300,000.0	153,300,000.0	153,300,000.0	153,300,000.0
Price															
Selling Gas (Revenue)	8.59 $/mmbtu	27,658.64 MM$	-	-	658.5	658.5	1,317.1	1,317.1	1,317.1	1,317.1	1,317.1	1,317.1	1,317.1	1,317.1	1,317.1
Buying Gas	7.53 $/mmbtu	24,225.23 MM$	-	-	576.8	576.8	1,153.6	1,153.6	1,153.6	1,153.6	1,153.6	1,153.6	1,153.6	1,153.6	1,153.6
OPEX	-335,543,320,000.00 $/mmbtu														
Operational Cost					20.2	20.2	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6
Government Contribution			-	-	19.8	19.8	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5
OPEX		25,627.37 MM$	-	-	616.7	616.7	1,219.7	1,219.7	1,219.7	1,219.7	1,219.7	1,219.7	1,219.7	1,219.7	1,219.7
Depreciation		888.60 MM$			40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4
Total Expenses		26,516.57 MM$	-	-	657.1	657.1	1,260.1	1,260.1	1,260.1	1,260.1	1,260.1	1,260.1	1,260.1	1,260.1	1,260.1
Cash Flow															
Net Opr. Income		961.43 MM$	-	-	1.4	1.4	24.2	26.8	29.6	32.7	36.0	39.6	43.4	47.6	52.1
Tax	30%	288.43 MM$	-	-	0.4	0.4	7.3	8.0	8.9	9.8	10.8	11.9	13.0	14.3	15.6
NIAT (Net Income After Tax)		885.12 MM$	214.3	37.0	184.1	128.5	(15.9)	(16.7)	(17.5)	(18.5)	(19.5)	(20.5)	(21.7)	(22.9)	(24.3)
Salvage value															
NIAT + Depr.		1,773.72 MM$	214.3	37.0	224.5	168.9	24.5	23.7	22.8	21.9	20.9	19.9	18.7	17.5	16.1
Cash Flow		885.12 MM$	(31.9)	(41.6)	(37.1)	(13.3)	24.5	23.7	22.8	21.9	20.9	19.9	18.7	17.5	16.1
Cumulative Cashflow			(31.9)	(133.4)	(170.5)	(183.8)	(159.4)	(135.7)	(112.8)	(90.9)	(69.9)	(50.1)	(31.4)	(13.9)	2.2
REGAS FEE	1.07 $/mmbtu		-	-	-	-	-	-	-	-	-	-	-	-	1.0
POT (PBP)	9.97 years		-	-	-	-	-	-	-	-	-	-	-	-	10.0
IRR	13.82%														
NPV	168.30 MM$														
PI (BCR)	1.2														
Gas Sold Prices	8.59 $/mmbtu														

Cash Flow Calculation

IRROE 13.82%

Deskripsi	Skenario	11	12	13	14	15	16	17	18	19	20
CAPEX		-	-	-	-	-	-	-	-	-	-
- Train 1											
LNG Receiving Terminal Construction Cost											
Pre-operation Cost											
Initial Working Capital											
- Train 2											
LNG Receiving Terminal Construction Cost											
Pre-operation Cost											
Initial Working Capital											
- Land Acquisition Cost											
Production											
- Train 1	76,650.0 mmscf	76,650.0	76,650.0	76,650.0	76,650.0	76,650.0	76,650.0	76,650.0	76,650.0	76,650.0	76,650.0
- Train 2	76,650.0 mmscf	76,650.0	76,650.0	76,650.0	76,650.0	76,650.0	76,650.0	76,650.0	76,650.0	76,650.0	76,650.0
Total		153,300,000.0	153,300,000.0	153,300,000.0	153,300,000.0	153,300,000.0	153,300,000.0	153,300,000.0	153,300,000.0	153,300,000.0	153,300,000.0
Price											
Selling Gas (Revenue)	8.59 $/mmbtu	1,317.1	1,317.1	1,317.1	1,317.1	1,317.1	1,317.1	1,317.1	1,317.1	1,317.1	1,317.1
Buying Gas	7.53 $/mmbtu	1,153.6	1,153.6	1,153.6	1,153.6	1,153.6	1,153.6	1,153.6	1,153.6	1,153.6	1,153.6
OPEX	-335,543,320,000.00 $/mmbtu										
Operational Cost		26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6	26.6
Government Contribution		39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5	39.5
OPEX		1,219.7	1,219.7	1,219.7	1,219.7	1,219.7	1,219.7	1,219.7	1,219.7	1,219.7	1,219.7
Depreciation		40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4
Total Expenses		1,260.1	1,260.1	1,260.1	1,260.1	1,260.1	1,260.1	1,260.1	1,260.1	1,260.1	1,260.1
Cash Flow											
Net Opr. Income		57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0
Tax	30%	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1
NIAT (Net Income After Tax)		39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9	39.9
Salvage value											
NIAT + Depr.		80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
Cash Flow		80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
Cumulative Cashflow		82.5	162.7	243.0	323.3	403.5	483.8	564.1	644.3	724.6	804.9
REGAS FEE	1.07 $/mmbtu	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0
POT (PBP)	9.37 years	-	-	-	-	-	-	-	-	-	-