



2 x Productions Plant

24 TPD Velká Byteš (2 x 12 PD) a 1x12 TPD Litvinov

18 x SES LNG/L-CNG (6 ČR+ 8 PL + 4 SR)

Technologic costs 12 TPD Network:

1) 1 x Production plant LNG 12 TPD =2,800.000,- euro

2) 6 x Satellite stations SES LNG/ L-CNG a"700.000,- €/ Ststion =4,200.000,- euro

3) 2 x Cryo tankers (8 tons x each delivery capacity) = 320.000,- euro

CAPEX : Total technologic costs =7,320.000,- euro

Criteria of calculation costs of LNG production.

- **For the production of 0,8 Kg of LNG = 1 kWh of energy**
- **12 TPD means 5.400.000 kWh/year energy necessity.**
- **The EU average cost of 1 kWh is 0,06 euro**
- **1m³ of NG has a equivalent weight of 0,7 Kg.**
- **The EU average cost of 1m³ of NG is 0,22 euro.**
- **The yearly LNG production is calculated for 350 operative days.**
- **The total LNG produced per year = 4.200 ton.**

Costs :

Energy: 273.000 euro/year = 0,065

Maintenance: 90.000 " = 0,025

Employed (2): 35.000 " = 0,008

Purchase gas: 0,155 €/m³ : 0,72 kg = 0,215

Depreciation : 10 years = 0,067

Total costs LNG production = 0,380 €/kg LNG

Criteria of calculation costs of SES L-CNG/LNG

- Calculated for 1.200 Kg CNG sold per day.
- One L-CNG distributor + One LNG distributor.
- No personal required.

Costs :

Energy: Cryo pumps and distributors	= 0,016
Maintenance: 5.000 euro/year	= 0,010
Employed (0)	= 0.000
Depreciation 10 Years	= 0,084
Total SES L-CNG/LNG costs	= 0,110 €/kg LNG

Criteria of calculation costs of LNG deliveries.

- average distance between two „SES“ and LNG production plan 100Km.
- 200 Km/day delivery trips x 2 trucks
- consume 1 liter diesel (1,25 euro/liter) each 4 km.
- Two cryo containers 20" 8 ton, with discharging pump.
- Purchase of two trailers approx. 200.000 €

Costs:

Energy: diesel fuel consume	= 0,013
Maintenance: 10.000 euro/year	= 0,002
Employed (2) : 29.500 euro/year	= 0,007
Depreciation: 10 years	= 0,006
Purchase 2 trailers.	= 0,005
Total costs for LNG delivery	= 0,033 €/kg LNG

Total costs for production, delivery and distribution of 1Kg of LNG - OPEX

Costs:	PP/12 TPD	SES LNG/L-CNG	cryotransp.	=	total
Energy	0,065	0,016	0,013	=	0,115
Mainten.	0,025	0,010	0,002	=	0,040
Employes	0,008	0,000	0,007	=	0,017
Purchase	0,215	0,000	0,006	=	0,159
Deprex.	0,067	0,084	0,005	=	0,205
Totals	0,380	0,110	0,033	=	0,523 €/kg LNG

Criteria:

- CNG/LNG EU average selling price: 0,1 euro/1Kg at the Service
- vat 21%
- fuel tax 0%

Income from the sale of CNG/LNG

Selling price	1,00 euro/Kg
Production and distribution	-0,523
Tax and fee	-0,174
profit margin from LNG/CNG	0,303 €/kg gas

Global network operative margin criteria:

1°year	1,2 ton/day gas sold from each one of	8 SES LNG/L-CNG
2°year	1,7 ton/day	" " 18 SES LNG/L-CNG
3°year.	2,0 ton/day.	" " 18 SES LNG/L-CNG

Progressive investiments :

1°year 8,720.000 € (12 TPD + 8 SES LNG/L-CNG + 2 cryo cont))

2°year 10,120.000 € (12 TPD + 10 SES LNG/L-CNG + 2 cryo cont.)

3°year 3,120.000 € (12 TPD module + 2 cryo cont.)

Total investiments : 21,960.000 € CAPEX (3x12 TPD LNG Plant, 18 SES LNG/ L-CNG, 6x cryo cont.)

Profit margin 12 TPD :

	Capacity	net income	cars served per day
1°year	60 %	796.284 €	30
2°year	85 %	1,128.069 €	45
3°year	100%	1,327.140 €	60

BREAK EVENT : Return investiments 5,5 years

CAPEX. 7,320.000 €

PROFIT per year 1,327.140 €

DETAILS

Each SES L-CNG station can support:

560 Kg of product processed in 1 hour it means 28 cars / hour

Two guns NGV dispenser: 3 minutes refueling operation x car

8.000 Kg of LNG into the cryo tank.

Prepared extension to LNG product dispenser.

The production of LNG by module 12 TPD

can be upgraded, on progressive SES selling demands, by a new module

Transport frequency for the SES LNG/L-CNG discharges

depends to the individual day selling necessity.



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