

Project Cost Estimate for LPG storage/transfer/regas

Considering the LPG infrastructure as stand alone asset, this is a valid approach. JOH

How do we calculate the regas cost?									
CAPEX	debt	185 MM	15 yr term	50/50	8% int rate	180	(\$1,767,956.36)	per month	(\$21,215,476.27)
CAPEX	equity	185 MM			18%	180	(\$2,979,278.92)		(\$35,751,347.07)
OPEX		3.1 MM/yr							(\$56,966,823.35)
Insurance		0.6% of storage	\$40 MM storage		10 months	2.4			
Thermal Energy		40 mw /hr			318864 MW/yr	at \$11.25/Mmbtu	\$	122,432	
Volume gas		96.17 MMSCFD							
Regas cost \$/MMBTU									
CAPEX		57 MM/yr							
OPEX		3.1 MM/yr							
Insurance		2.4 MM/yr							
Thermal Energy		0.122432 MM/yr			1 kw th = 3413 BTU			136,520,000	
Sub-total =		\$62,622,000.00			1 MW th = 34,130 BTU				
					40 MW th = 136.5 MM BTU				
Total		\$62,622,000.00							
Volume =	MMSCFY	31,942,865,500							
BTU/SCF =		1034							
BTU/Yr		33,028,922,927,000							
\$/MMBTU =		\$ 1.90							Should we charge each MMBTU or have we included in electric sales?
Fuel Supply quote =		8.35	Burner tip						
	\$	6.45	Landed commodity cost. Sanity chk this.						
"If" Henry Hub =	\$	2.00	per MMBTU						
C ₃ H ₈ would be =	\$	0.18	per gallon						
Processing cost =	\$	0.02	per gallon						
Transport & Frac =	\$	0.138	per gallon						
Margin =	\$	0.05	per gallon						
Selling price FOB =	\$	0.39	per gallon						
FOB in \$/MMBTU =	\$	4.27	\$/MMBTU					5.552	
Ocean trans \$/MMBTU=	\$	2.25	\$/MMBTU					2.25	
Landed Cost	\$	6.52	\$/MMBTU					7.802	
Regas & Term fee -		1.83	JOH Est					1.83	
Burner tip cost =	\$	8.35	\$/MMBTU					9.632	\$/MMBTU