



Cavalier Energy CORPORATION



800 Megawatt Independent Power Plant – Karachi, Pakistan

38%+ IRR at 60% off-take - Sovereign Guarantees
US Government insured Assets, Equity, and Returns on Investment

Project	800 Megawatt Fast Track		Political Risk	Overseas Private Inv	estment
Troject	Independent Power Plant		Insurance	Corporation (US Government) and	
	Karachi, Pakistan		msarance	Private reinsurance.	
	LNG/Natural Gas fueled			Filvate remsurance.	negistereu.
	LING/Natural das rueleu	US\$ Million	ECA Status	US EXIM – Registere	d
Duoinet Cost	Construction		ECA Status	O3 EXIIVI — Registere	:u
Project Cost	Construction	1,068.28	-	Consideration of	
	Const. Interest	50.79	Engineering	General Electric app	
	Working Capital	<u>98.00</u>	Procurement	General Electric sup	
	Total	1,217.07	Construction	General Electric con	•
			Contractor	General Electric ope	
Project	77.22% Debt	847.50	(EPC)	General Electric ma	-
Financing	22.78% Equity	220.78		800 EPC personnel a	
				adjacent sites buildi	ng power plants
Financial	IRR - 60% off take	38%+			
Parameters	Islamic Bond sukuk	15.50%	Post COD	O&M	US\$ 43.62 M/yr
in Tariff	Cost per MW	US\$ 1204	Parameters	Insurance	US\$ 8.37 M/yr
				Fuel pass through	100% + fees
Off take	Pakistan National Electrica	al Power			
	Regulatory Authority (NEP	rA)	Power Plant	US manufactured General Electric	
	www.nepra.gov.pk			Combined Cycle Gas	Turbines 209FA
				•	
Total Tariff	7.0047 US Cents/kWh – Gas		Guaranteed	Open Cycle LPG	11,005Kj/kWh
	est. 9.7692 US Cents,	/kWh – LNG	Heat Rate	Combined Cycle	7,542Kj/kWh
			Security	Equipment – Genera	al Electric
Timeline	Financial close	4 mo.	Package	EPC Contract – US le	ead Consortium
	480 MW Simple Cycle	18 mo.		O&M Contract – Ge	neral Electric
	800 MW Combined Cycle	30 mo.		Land Agreement	
				Power Purchase Agr	reement
Sponsors	Cavalier Energy and Development			Implementation Agr	eement
•	Group – Pakistan (major Pakistan			Sovereign Guarante	
	Defense Contractor – 4 Major			Political Risk Insurar	
	Pakistan Power Plant Projects)			Fuel Supply Agreem	
	www.cedsg.com	2013)		Bank Guarantee – U	
	www.ccusg.com			Jan. Jan. Jan.	-
	Global Edison Corporation	ı – US	Combost	Dod Johnson	
	3 Power Plants currently u		Contact	Rod Johnson	
	•			President & CEO	
	Contract in Atchanictan 9.				
	contract in Afghanistan &	Pakistan.		+1 214 679-8600 US	
	www.GlobalEdison.com	Pakistaii.		+1 214 6/9-8600 US +1 972 261-2000 Di	



Confidential Update for Investors and Lenders 800 Megawatt Independent Power Plant – Karachi, Pakistan

Project Update - October 5, 2009

2009 has seen many changes in the Global Economy and the Project Sponsors and Pakistan Ministry of Water and Power have responded by revamping the project to provide higher returns with increased financial security and lower operational costs.

Specifically:

- **New Fuel (LNG)** -The project has been redesigned to operate on LNG fuel using more efficient technologies that will provide lower cost electricity to the consumer, lower emissions, allow the project to stand higher costs of capital and greater security of fuel availability from more sources.
- **New Project Timeline** Financial close and Commercial Operation Date will be adjusted to reflect project re-engineering and moderately longer financing requirements.
- **New Financial Sources** The project will now be financed in part by high yield Islamic Bonds, which have largely been unaffected by the economic down.

Project Unique Features:

- Pakistan's first LNG Power Plant will use clean low cost fuel not available to other projects.
- Pakistan's first LNG Terminal will be come the gateway to supply LNG to Pakistan
- Pakistan's first Islamic Bond funded power plant accessing large untapped capital sources.
- Full Political Risk Insurance from the United States Overseas Private Investment Corporation.
- 38% plus IRR on Equity at only 60% off take backed by Sovereign Guarantees
- Sovereign Guarantees from the Government of Pakistan further insured by the US Government
- Full Political Risk Insurance from the US government (Overseas Private Investment Corporation)

While many projects have been negatively impacted our project has seen <u>numerous improvements</u>

- LNG fuel will allow a **lower cost of operation** and **lower cost electricity**. Regassification of the LNG will occur offshore on board the LNG tanker removing most fuel over 4.5 miles from the project and making it more secure. Capital costs and risk of fuel storage are now born by suppliers.
- **New high efficiency Gas Turbine Generators** previously in short supply with long lead times are now available providing a higher output at a lower cost.
- The revised project timeline resulting from re-engineering will allow for issue of the Islamic Bonds.
- LNG Fuel prices have plummeted which will now allow for **low cost long term fuel purchase** assuring the project will be operated at maximum utilization and therefore produce higher returns.
- Demand for LNG in Pakistan has brought forth **new project sponsors with land, and existing fuel jetty to be contributed to the project** and the new sponsor will be a major consumer of LNG.



Security Package – World Bank Standards Index and Status

Risk Matrix - World Bank Standard

- 1. Implementation Agreement Agreed as part of fast track bid package
- 2. Power Purchase Agreement Agreed as part of bid package (under revision for LNG)
- 3. Tariff Approved by the Government Agencies (under revision for LNG)
- 4. Engineering, Procurement and Construction Agreed (under revision for LNG)
- 5. Operation and Maintenance Contract. Agreed. (under revision for LNG)
- 6. Sovereign Guarantee Agreed as part of the fast track bid package
- 7. Political Risk Insurance US Overseas Private Investment Corporation.- Agreed (Draft)
- 8. Land Agreement and Fuel Jetty Agreement Agreed
- 9. Fuel Supply Agreement Agreed. A direct contract with a national supplier is being negotiated.

Project Participants:

Gas Turbine Generators – General Electric (US)

<u>Engineering Procurement and Construction</u> – General Electric approved US Contractor - TBD Accounting, Financial Model Audit and Feasibility Study – Deloitte LLP (New York)

Legal - Locke Lord Bissell & Liddell (Dallas, Texas)

<u>Pakistan Sponsor (Development)</u> - Cavalier Energy Systems – major Pakistan government contractor.

<u>Pakistan Sponsor (Land, Fuel Jetty)</u> - ENRGO VOPAK – Currently operating gas turbine power plant at the site and operating a LPG gas fuel jetty.

<u>US Project Sponsor (Finance, Risk Management and Project Development)</u> - Global Edison Corporation <u>Political Risk Insurance and Reinsurance</u> – Overseas Private Investment Corporation (US) Export Credit Agency – US EXIM Bank

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800 Megawatt Independent Power Plant Karachi, Pakistan

Note: This Risk Mitigation Analysis has been completed based on World Bank Standards and Guidelines and the best available information at the time. No representations, warranties or guarantees are made as to the accuracy or completeness of the data contained herein. No solicitation is being made based on the data. Potential Investors or Lenders are advised to refer to actual contract documents and their own respective counsel for all matters concerning the risks and benefits of the project.

RISK MATRIX

RISK MITIGATION ANALYSIS						
RISK	REASON	REMEDY	CONSEQUENCES FOR LENDERS	CONSEQUENCES FOR INVESTORS		
CONSTRU	UCTION PERIO	D				
Cost Overrun	Within Construction Consortium Control	Included in Fixed Price Lump Sum Contract.	No Effect	No Effect		
	Outside Construction Consortium Control:					
	-Insured event	Proceeds of insurance policy including business interruption insurance.	No Effect to Minimal Effect. One Percent Policy Deductible is within Contingency. Draw on standby finance if insurance policy exhausted. Debt cover factors reduced if standby debt used.	No Effect to Minimal Effect. Return eroded by servicing of stand-by finance if policy limits exceeded.		
	- Uninsured force majeure (Example: Disease/Plague, etc)	Draw on stand-by finance.	Debt cover factors reduced if stand-by debt used	Return eroded by servicing of stand-by finance		
	- Ground conditions	EPC Contract warrants condition and design appropriateness.	No Effect.	No Effect.		



	RISK MITIGATION ANALYSIS					
RISK	REASON	REMEDY	CONSEQUENCES FOR LENDERS	CONSEQUENCES FOR INVESTORS		
	- Owner variation orders	Not permitted without Lender and Investor Approval. If approved and in excess of contingency draw on stand-by finance. Term sheet limits scope of variations by Owner.	No Effect to Minimal Effect. Debt cover factors reduced if stand-by debt used in excess of project contingencies.	No Effect to Minimal Effect. Return eroded by servicing of stand-by finance if stand-by debt used in excess of project contingencies.		
	- Changes of law, delays in obtaining approvals or permits, increased taxes	Power Purchase Agreement Adjusts Tariff to compensate. IRR is guaranteed under PPA.	No Effect	No Effect.		
Delay in Completion	Within Construction Consortium Control	Costs are a pass through to EPC under contract.	No Effect.	No Effect.		
	Insured Force Majeure	Proceeds from business interruption insurance policy.	No Effect to Minimal Effect. Standby finance drawn if insurance policy exhausted; debt cover factors reduced if standby debt finance used.	No Effect to Minimal Effect. To extent ability to pay dividends is postponed, return eroded.		
	- Ground conditions	EPC Contract warrants condition and design appropriateness.	No Effect.	No Effect.		
Failure of Plant to meet Performance Specifications at Completion Tests as result of fault by Construction Consortium	Capacity shortfall	Penalties payable by Construction Consortium up to full value of contract supplemented by E&O insurance. Remediation corrects construction errors causing Capacity Shortfall.	No effect	No Effect based on remediation. Return reduced if penalties and EPC Insurance from Construction Consortium exhausted. Capacity Payment Adjusted per PPA.		
	Heat Rate shortfalls	Penalties payable by Construction Consortium up to full value of contract supplemented by E&O insurance.	No Effect based on remediation. Debt cover factors reduced otherwise. If Construction Consortium fails to	No Effect based on remediation. Otherwise return reduced by cost of additional fuel if exceeds fuel contingency.		



	RISK MITIGATION ANALYSIS				
RISK	REASON	REMEDY	CONSEQUENCES FOR LENDERS	CONSEQUENCES FOR INVESTORS	
		Remediation corrects construction errors causing Heat Rate Shortfall.	remedy defect, credit risk on Construction Consortium.		
Operating Costs Overrun	Costs exceed original estimates, not insurance or Force Majeure event	O&M contract warrants costs.	No Effect.	No Effect.	
	Insurance costs exceed original estimates	Long Term 10 year contract protects investors and lenders during 10 year loan. Standby finance drawn pending Tariff adjustment.	No Effect. Debt cover factors slightly reduced depending on timing effect.	No Effect	
Increased Financing Costs	Interest rate increase	Fixed interest rate for 10 year term.	No effect.	No Effect	
	Adverse exchange rate change	Pass through to Government under PPA.	No Effect.	No Effect.	
	Adverse exchange in terms of finance	Pass through to Government under PPA.	No Effect.	No Effect	
Government	Minor changes in tax, law, customs, legal requirements, environmental standards	Pass through to Government under PPA. Tariff adjustment (if during construction period, standby finance drawn).	No Effect. Stand-by finance could be required. No effect on Debt Service Cover Factor.	No Effect.	
	Expropriation, nationalization, consents withdrawn, interference causing severe prejudice	Political Risk Insurance responds. Owner entitled to terminate as Government default	No Effect.	No Effect. Termination would reduce returns per PPA.	
	Fundamental breach by the Government, under agreements	Political Risk Insurance responds. Owner entitled to terminate as Government default.	No Effect. If owner terminates, loan repaid or assumed as Compensation.	If Government defaults and Owner terminates, Compensation paid for termination. Termination would reduce returns per PPA. Political Risk Insurance responds.	



RISK MITIGATION ANALYSIS				
RISK	REASON	REMEDY	CONSEQUENCES FOR LENDERS	CONSEQUENCES FOR INVESTORS
OPERATI	ON PERIOD			
Operating Costs Overrun	As a result of changes in regulations At Owner's request and beyond contingencies. (examples: increased or new security measures	Tariff adjustment No adjustment to Tariff.	No effect based on offsetting benefits. Debt cover factors reduced if no offsetting	No effect No effect based on offsetting benefits. Returns reduced if no offsetting benefit.
	or new maintenance procedures to improve heat rates.)		benefit.	
	As result of failure by the operator	No adjustment to Tariff. Penalties payable by the operator	No Effect or Minimal Effect. Debt cover factors reduced if penalties exhausted	No Effect or Minimal Effect. Return reduced if penalties exhausted.
Inflation, Adverse Change in Cost of Finance, Exchange or Interest Rate Rates		Tariff adjusted by indices. Small possibility that movements in indices do not exactly match changes in actual costs.	No Effect or Minimal Effect. Debt cover factors could be reduced/increased based on timing.	No effect or Minimal Effect. Possibility of erosion/increase in return
Foreign Exchange Non- Availability/ Non- Convertibility		Political Risk Insurance responds. Government guarantees availability of foreign exchange. If Government defaults Owner can terminate.	No Effect.	No Effect.
Failure to Make Available Sufficient Foreign Exchange	Government default	Political Risk Insurance responds. Government guarantees availability of foreign exchange. If Government defaults Owner can terminate.		No Effect or Compensation paid for termination.



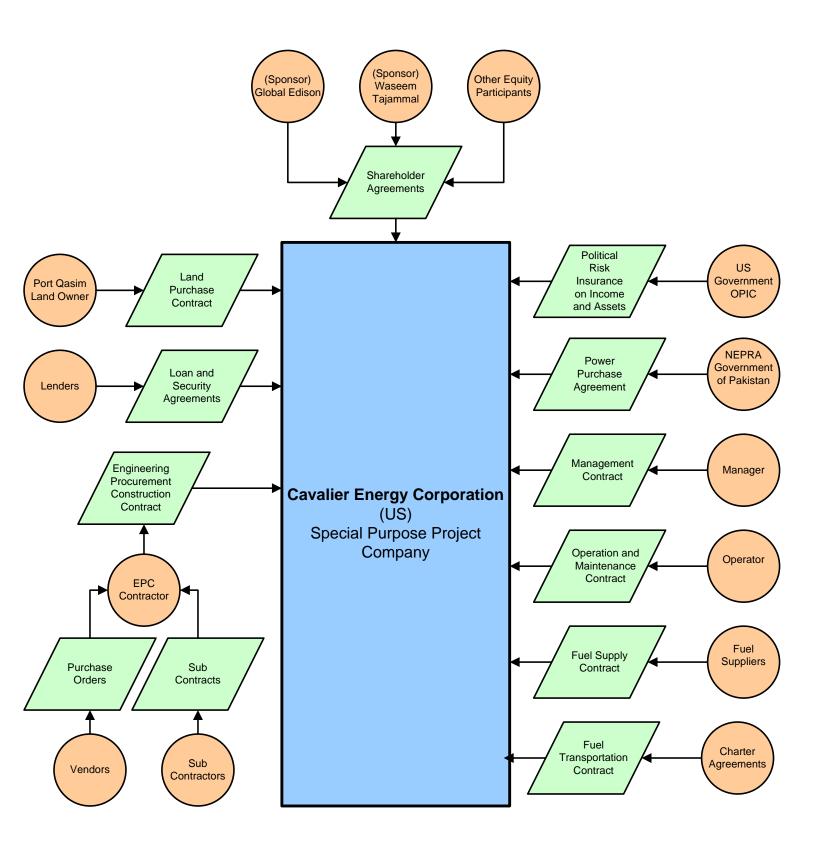
RISK MITIGATION ANALYSIS				
RISK	REASON	REMEDY	CONSEQUENCES FOR LENDERS	CONSEQUENCES FOR INVESTORS
Failure of purchaser of power (State owned utility) to Perform Obligations		Political Risk Insurance responds. Government guarantees performance. If defaults under guarantee, Owner can terminate.	No effect if Government pays under guarantee. If Government defaults under guarantee and Owner terminates, loan repaid or assumed as Compensation.	No effect based on Political Risk Insurance and/or if Government pays under guarantee. If Government defaults under guarantee and Owner terminates, Compensation paid to termination.
Forced Outage, De-Rate or Temporary Shortfall in Capacity, Deterioration in Heat Rate	Owner's fault	O&M contractor warranties performance. Penalties payable by Owner and Capacity Payment reduced per PPA.	No Effect based on recovery from O&M contractor. If O&M warranty fails to repay penalties it may completely erode shareholders returns, possibility of insufficient cash. Debt service Escrow Account to be drawn down.	
Forced Outage or Temporary Shortfall in Capacity	Purchaser of electricity's fault	Capacity Purchase Price payable anyway.	No effect	No effect
	Force majeure event	Political Risk Insurance Responds. Capacity Purchase Price paid by Government anyway.	No Effect. Government guarantees default by Purchaser. If Government defaults, Owner terminates and loan repaid or assumed as Compensation	No Effect. If Government defaults, Owner can terminate. Compensation for termination paid by Government
Increased Fuel Costs (not arising from higher Heat Rate deterioration than Base Case)	Increase in price of Fuel.	All fuel cost are passed through to Government.	No Effect.	No Effect.



	RISK MITIGATION ANALYSIS				
RISK	REASON	REMEDY	CONSEQUENCES FOR LENDERS	CONSEQUENCES FOR INVESTORS	
Boiler and Machinery Failure	Insured event	Insurance proceeds for physical reinstatement and business interruption cover for debt service costs.		No Effect or Reduction in return if insurance policy exhausted	
Failure of the Operator to Perform Obligations	The Operator's breach of Operations and Maintenance Agreement	Penalties payable by the Operator.	No Effect or Debt cover factors reduced if the Operator's penalties exhausted and standby debt finance used.	No Effect or Debt cover factors reduced if the Operator's penalties exhausted and standby debt finance used	
Environmental Incidents Caused by the Operator	The Operator's breach of Operations and Maintenance Agreement	Indemnity from the Operator.	No Effect or Debt cover factors reduced if the Operator's penalties exhausted and standby debt finance used.	No Effect or Debt cover factors reduced if the Operator's penalties exhausted and standby debt finance used	

Project Structure 800 Megawatt Independent Power Plant

Karachi, Pakistan



Lender and Investor Security for Cashflows

800 Megawatt Independent Power Plant

Karachi, Pakistan

