

GREC Proposal Discussion

Item # 130310











August 23

Sept. 5

Sept. 19

Sept. 23

Oct.

3

17

Oct.

Oct.

22

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GREC Advises GRU it wants to sell GREC

Right of First Offer 60 Days Begins

GREC offers to reimburse legal fees (\$1.5 million) if GRU waives some rights <u>City</u> Commission

meeting

Advise City Commission of GREC intention and offer

Frame Decisions City Commission meeting

Describe the sources of savings

Present high level numbers

Qualitatively discuss assumptions/ risks

Direction

Will GRU accept GREC's offer to reimburse legal fees (\$1.5 million)?

Determine areas in which City Commission wishes more, or more in depth, information GREC offer expires

City Commission meeting Address items

identified at Sept.

9 meeting

Discuss risk assessment 1603 grant Financial risk Operational risk other City Commission meeting GRU's right of first offer rights expire

Decision:

Make Right of First offer final decision



August

23















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City Commission meeting

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Frame Decisions

















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Qualitatively discuss assumptions and risks

Direction

Will GRU accept GREC's offer to reimburse legal fees (\$1.5 million)?



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GREC offer expires

City Commission meeting

Address items identified at Sept. 9 meeting

Discuss risk assessment

- 1603 grant
- Financial risk
- Operational risk
- other

<u>City</u> Commission meeting

Decision:

Make Right of First offer final decision

GRU's right of first offer rights expire





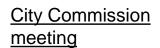












Describe the sources of saving

Present high level numbers

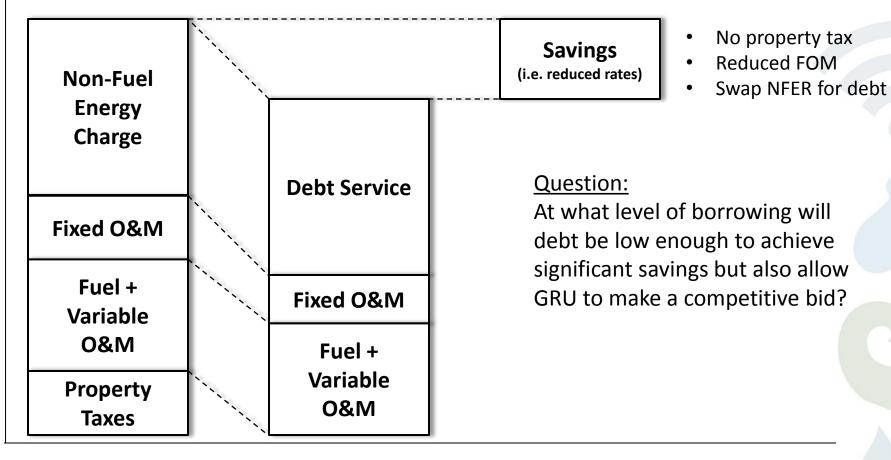
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GRU costs as "Buyer" of power under PPA GRU costs as "Owner" of GREC



Note: Not to scale

Cost/Value to GRU

Purchase Price	\$520 M	\$620 M	\$720 M	\$800 M
Less Grant	(\$120 M)	(\$120 M)	(\$120 M)	(\$120 M)
Net Price (GRU Debt)	\$400 M	\$500 M	\$600 M	\$680 M
Net Present Value of Saving	\$490 M	\$376 M	\$263 M	\$172 M
% 30 Year Savings to PPA	25%	20%	14%	9%
% 30 Year Savings to PPA less Fuel & Variable O&M	TBD	TBD	TBD	TBD

- Cost of tax-exempt borrowing = 5.5%
- Average weighted cost of capital = 4.5%



Major Assumptions

- GRU's cost of borrowing = 5.5 percent (reflects interest rate of high "A" bond rating)
- GRU's average weighted cost of capital = 4.5 percent
 - Facility will maintain ≥ 90% availability factor
 - Assuming and managing the plant's O&M generates savings with minimal marginal risk
 - The difference in fuel risk between being "buyer" under the PPA & being "owner" is minimal
 - Other



Assessment of Change in Risk Profile Associated with GREC Acquisition

		Under PPA, GRU as Buyer	Under GRU Ownership	Chg. To GRU Risk	Confidence (in scope of risk)	Significance (of change in GRU risk)
Operational Performance Risk	Performance; thermal	GREC has the risk of capacity falling short of 100 MW and of Heat Rated being greater than contract requirement. As a similar plant is in service and has demonstrated performance, risk in negligible. Any HR improvement over contract is to GREC's economic advantage.	GRU has capacity and HR risk, as with its existing generation assets. Acquisition likely after GREC has completed successful Dependable Capacity Test. Any improvement in HR over contract is to GRU's economic advantage. (To the degree that GREC has some margin, i.e. profit, built into the HR, GRU can receive this benefit)	↑	MEDIUM	MEDIUM
				See note		
	Performance; environmental	GREC has the risk of receiving and complying with the required air and ground/surface water permits. Compliance requires BACT technology	Timing of an acquisition is such that GRU would acquire the facility after the required permits are issued. GRU would have the risk of ongoing operation in compliance with the permits, as it does with its existing facilities.	\	HIGH	LOW
	Reliability	GREC has risk of maintain reliability at contract levels or lose NFEC and/or pay damages. Assume GREC maintains <u>90%</u> availability factor	GRU has reliability risk, as it does with it's other generating facilities. GRU could assume NAES 7 year O&M contract. All plant equipment is in reliable service elsewhere. DH2 normalized (for planned outage) 18 yr availability = 91.70%. Last 5 yr = 93.62%	↑	HIGH	LOW; while GRU does take op. risk, the incremental risk above that already managed is minimal.
	Operational Flexibility	GREC must dispatch around the following restrictions: - low load = 70m - OFF/ON cycle (Winter) = 16 - OFF/ON cycles (summer) = 0	Improved Operational Flexibility - Low Load = 50 mw -OFF/ON cycles = Unlimited	\	HIGH	MEDIUM; Reduced ANOPC from more flexibility in unit commitment

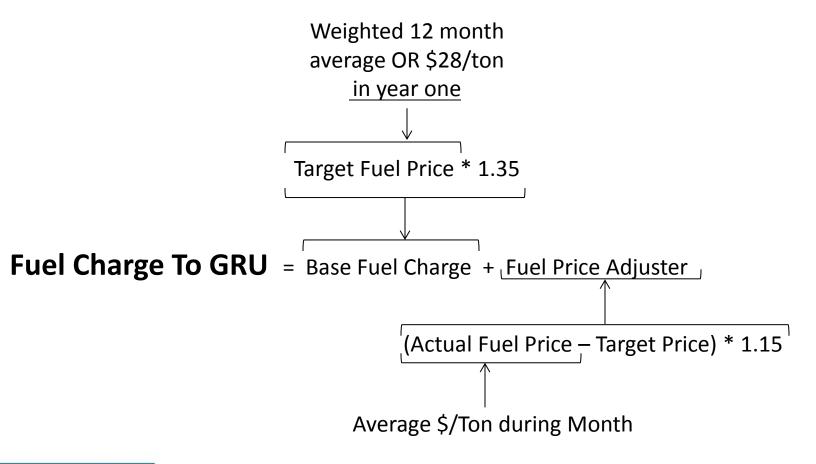
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Operational Non-Fuel Cost Risk	Variable O&M	GRU pays \$3.15 MW-h, escalated by CPI.	GRU has risk of VOM escalating faster than CPI. (Note; if the \$3.15 has profit in it, that would flow to GRU.)	\rightarrow	HIGH; GRU experience is that VOM escalation exceeds CPI	MEDIUM
	Non- Fuel Energy Charge	Fixed to GRU over 30 years; no inflation risk to GRU	No NFEC. Exchanged for 30 year fixed debt (see credit risk.) Acquisition based on the NFEC/debt swap bring significant value as all profit in NFEC flows to GRU.	\	HIGH	HIGH
	Fixed O&M	Fixed to GRU over 30 years; no inflation risk to GRU (1) 1 year O&M expense = \$14 M (1 st year) (1) To be willing to have FOM flat for 30 years, a risk premium was embedded in the expense projection	GRU assumes inflation risk, which it has for its existing assets. (As owner, GRU participates in any saving resulting from staffing efficiencies and any profit built into the NFEC now flowing to GRU.) Assume O&M = \$10M (including insurance, 1 st year)	↑	HIGH	LOW: GRU FY14 O&M = \$107 million. Increase < 10% with GREC
		Assumes GREC cost of \$14m/yr and 2.5% escalation (for them, not passed on to GRU)	Assumes GRU's cost to be \$10m/yr, and 2.5% escalation	→	MEDIUM	MEDIUM
	Capital	No direct risk to GRU with fixed NFEC. Only indirect risk if GREC fails to adequately fund plant improvements/upgrades to maintain reliability.	GRU assumes cost of capital upgrades. Assume \$1-2M/yr. in early (3-5?) years and \$3-5M/yr. there after	None/ Negligible	HIGH	LOW 12

Assessment of Change in Risk Profile Associated with GREC Acquisition

		Under PPA, GRU as Buyer	Under GRU Ownership	Chg. To GRU Risk	Confidence (in scope of risk)	Significance (of change in GRU risk)
Fuel Risk	Availability	GREC uses BRM for fuel procurement. Currently has 40% + requirements under contract for 5 years. Many independent studies show more than needed supply in the 75 mile radius woodshed.	Current contract with BRM likely assignable to GRU	None / Negligible	HIGH	LOW
	Price	Fuel cost is pass through to GRU with yearly true up. True up is economic advantage to GRU in a rising fuel cost market	GRU pays for fuel at as delivered price. Fuel cost reduced by any profit built into the Target Fuel Price calculation in the PPA.	\rightarrow	MEDIUM	MEDIUM
	Replacement Power Cost	Incremental cost if GREC is unavailable and GRU has to replace the power from (a) its other units or (b) from the market. Expect replacement power, even firm from market, to be less than GREC total cost. (Note; when GREC is unavailable, GRU is not charged NFEC or FOM)	Incremental cost if GREC is unavailable and GRU has to replace the power from (a) its other units or (b) from the market. Assume GREC and GRU system average production costs to be comparable.	<	MEDIUM	LOW
	Competitiveness with Other Fuel Types	FUEL + VOM - GREC; \$37.33 (contract) - DH2; \$42.34 (9-17-13) - CC1; \$33.53 (9-17-13) - "mkt"; \$33.16 (Fa HR & HH Gas-\$5 VOM)	FUEL + VOM - GREC; \$37.33 (contract) - DH2; \$42.34 (9-17-13) - CC1; \$33.53 (9-17-13) - "mkt"; \$33.16 (Fa HR & HH Gas-\$5 VOM)	None/ Negligible	HIGH	LOW

Fuel Pricing





Direction

- Will the City accept GREC's offer to reimburse legal fees of about \$1.5 million?
- Determine areas in which the City Commission wishes more, or more in depth, information

