

Bringing Order from Chaos

Eric M. Markell SVP Energy Resources Puget Sound Energy

January 27, 2004

Asset Acquisition in the Post-Merchant World

- A. Business models are out of control
- **B.** Restoring order
- c. Defining needs
- **D.** Protecting key constituent interests
- E. Good process analysis
- F. Key findings



Many Processes Misaligned, Uncertainty Abounds, Inability to Control Destiny



Restoring Order

- Integrated Resource Planning
- Educating parties about process alignment and sound business models
- Value of vertical integration and reregulation
- Systematic risk reduction along the value chain



PSE Growing Energy Needs



PSE SOUND ENERGY

Protecting Key Constituent's Interests

Protect Ratepayers

- Evaluate and balance risk and value
- Obtain a favorable price and terms
- Assure execution

Protect Shareholders

- Identify and examine all relevant opportunities
- Ensure acceptable return of, and on, investment
- Assure execution



Good Process and Analysis Requires Managing Several Steps

Step I: Determination Of Need For Resources	Step II: Assessing Available Opportunities	Step III: Acquiring Resources	Step IV: Integration and Transition Support
Regulatory			
 Integration with regulatory environment Decision analysis/documentation Process management 	 Development of fast-track process to act on current market opportunities Coordination of solicitation/RFP Acq., build, PPA, renewables 	 Coordination with state regulatory requirements Integration with IRP/LCP program Ensure all options are assessed 	 Direct/indirect testimony support Provide support across numerous regulatory agency filings & sessions
Strategy			
 Regional power market modeling and assessment Review of trading & contracting activities Portfolio optimization 	 Assessment of "target" and "market" opportunities Review of options (build, buy, PPA, DSM) and technologies (Gas, coal, renewables) Assessment of counter-parties and alignment with strategic objectives 	 Incorporation of strategic insight of counter-parties into negotiation Scenario-based simulation of existing portfolio (VAR/EAR) Assessment of PPA vs. owned- asset trade-offs 	 Development of transition plans (HR, IS/IT) Integration planning and assignment of team roles and responsibilities Development of new entities strategy
 Access to expanded deal-flow of potential opportunities 	 Facilitation of discussion with counter-parties Review of alternative project structures and approaches Valuation of alternatives 	 Due diligence Preparation of offer (s) Negotiation of transaction Executing P&S agreement 	 Market power monitoring Revenue enhancement measures (M&T, etc.)

Understanding the regional market environment defines what price to pay



Point Estimates are No Longer Acceptable, Uncertainty and Risk must be Integrated





Financial Metrics

Financial Metric	Rationale	Limitations
Revenue Requirements	 Best indicator of the cost to PSE customers 	 Complexity of comparing opportunities of different size, terms, and composition (e.g. assets vs. PPA's)
DCF Valuation	 Best estimate of market value based upon today's best information 	 Dependent upon each parties respective view of forward prices and spark spreads
	 How the counter-parties values the transaction. Provides basis to evaluate synergies and trade-offs 	 A "modeled" value that doesn't reflect actual costs to ratepayers Doesn't lead directly to transaction price
Distribution of financial results	 Monte Carlo analysis tests the "robustness" of the answer 	 Uncertain regulatory environment difficult to model
BV And Potential Discount To BV	 Provides an estimate of the "value captured" from current market downturn 	 An accounting perspective that could mask true value



Examination of All Alternatives

	Why Attractive	Why a Concern
Asset Purchase	 Hedges long term exposure to spot market Helps bound future costs to customers 	 What price is fair? What risks or other concerns does plant bring to table? Integration challenges?
PPA	 Potential to get attractive deal in today's market environment 	 Counter-party exposure What changes could develop in future?
Self-Build	Controls utility's own destiny	 Potential cost overruns Potential schedule overruns



There are a number of distressed projects to sort through

• In addition to "officially" tabled projects, many still in "construction" status have actually been suspended

WSCC: Northwest only/ NWPA

WSCC Capacity





Pre-defined Valuation Criteria can Winnow Down the Leading Candidates







Key Findings - What we saw

Less Expected Expected Considerable influence of lenders limiting 1. 1. Lenders not a factor. Most projects financed what the counter-parties are willing or able to with equity from intermediate holding disclose about declining valuations companies 2. Actual construction costs have been higher than generic self-build option might indicate 2. Seller's concern about a lengthy decision cycle at an IOU, commitment to actually close Generally in the high \$700/kw range as a transaction and in particular, the regulatory opposed to the expected mid \$600/kw risks involved range Some differences attributable to developer's rush to get a project on-line 3. Seller's expressions of interest and early ASAP, but also indicative of the difficulty of posturing on prices designed at making the projecting generic costs to build without short list, put preserving options to try to having a specific project estimate defined increase prices during negotiations 3. Some counter-parties believe in eventual market recovery, and express no interest in negotiating an attractive price - taking the

"long-term perspective"

Value potential is a function of where the project is on its development cycle, and how distressed the parent is



Operating plants aren't under same degree of distress and tend to feel they can ride out the storm – long option

Farther out development projects expect to share equally in togo development costs



Fuel Type and Transmission are Big Value Drivers

- Wheeling costs a large value detraction
- Transmission service difficult to obtain
- Coal's low costs and low volatility are a significant value adder
- Coal's relatively high capital cost, construction cycle, and GHG risks are holding it back despite large and growing uncertainty with the gas supplies and costs



Recognition and Management of Risk is Critical

