# STEVEN E. LEWIS

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## SUMMARY OF QUALIFICATIONS

19 years of professional experience in the energy industry. Expertise in all areas of power management and utility operations, including energy trading, risk management, power resource planning and acquisition, power plant development and acquisition, transmission contracting and issues, hydro operations, control area operations, state and federal electricity rates and regulation.

## PROFESSIONAL EXPERIENCE

### LANDS ENERGY CONSULTING

Seattle, Washington 2001-Present

***Principal Consultant***

Part owner and president of Lands Energy Consulting. A partial list of clients includes: NorthWestern Energy, The BPA Slice Customers (18 northwest public utilities), Snohomish PUD, Seattle City Light, the Confederated Tribes of the Colvilles, PNGC, The City of Victorville, California, Astrum Utilities, the lawfirm of Forsberg & Umlauf PS. Key projects Mr. Lewis has lead include:

- Facilitate numerous structured resource solicitations including recent RFPs for NorthWestern Energy. These resulted in completed purchase contracts for the 135 MW Judith Gap Wind Project in Montana and the 25 MW Titan I Wind Project in South Dakota. Judith Gap was selected from a robust response to an open solicitation and was approved by the Montana PSC following detailed filings and testimony offered by Mr. Lewis.
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- Guide the development of risk management strategies and trading/scheduling practices for northwest hydroelectric based utilities, including Snohomish PUD and Seattle City Light. Snohomish PUD owns and operates the Jackson project, which is primarily a water supply project with power generation as a secondary output. They also purchase the largest amount of Slice contract power from BPA, which provides Snohomish with the flexibility and decision-making responsibility associated with a 5% share of BPA's generating capability. Seattle City Light is 90% hydroelectric based on 2006 actual energy production.
- Mr. Lewis has also supported BPA's Slice contract customers in the development of scheduling practices and optimization strategies for their contracted scheduling flexibility. The Slice contract customers are 11 Northwest public utilities who purchase over 22% of BPA's generating capability on a percentage of system capability basis, which includes rights to both short-term (within-day, within-month) as well as long-term (month-to-month) scheduling flexibility.
- Facilitate multi-million dollar one- and two-year sales of hydroelectric output of the Wells dam in central Washington for one of the project participants. The sales have gone to numerous purchasers and have included minute-to-minute dispatch

flexibility. Sales have been facilitated through competitive processes and have required close coordination with the project operator, and the potential purchasers.

- Lands Energy has also supported clients in the development of operating, marketing and scheduling strategies for renewable energy, including non-dispatchable resources such as wind project output.

**SEATTLE CITY LIGHT** 1999-2001
Seattle, Washington
***Power Marketer***

Directed all within-month marketing in conformance with the overall utility resource hedging strategy. Ensured a short-term operation of Seattle's generating assets optimizing their economic value within operating, regulatory, and reliability constraints. Included in Seattle's portfolio is over 2,000 mw of hydro-electric generating assets, multiple long-term contracts for power purchases/sales, 1,312 mw of long term firm transmission rights on the BPA main grid, and 160 mw of capacity ownership on the NW/SW AC Intertie. The hydroelectric assets include a number of large storage and run-of-river projects (Boundary, Ross, Diablo, and Gorge) as well as two smaller storage projects with first purpose water supply uses (Cedar River and Tolt River Projects).

Lead the negotiation for purchase of a 10-year power purchase contract from the Klamath Falls cogeneration project, including the execution of the first gas derivative hedge by Seattle City Light in order to mitigate the gas price exposure contained in the electricity purchase contract.

**PUGET SOUND ENERGY** 1990 - 1999
Seattle, Washington
***Senior Electricity Trader (Title upon departure)***

Puget's designated operations liaison with Duke Energy during the Puget/Duke operating and trading alliance. Coordinated trading and marketing activity between Duke's trading floor in Salt Lake City and Puget's trading floor in Bellevue. Worked with Duke's origination staff in the marketing of non-standard product offerings within the Northwest. Reviewed the modeling of Puget's resource assets within trading books at Duke, and evaluated the performance of the hedging activities within those books.

Prior to the alliance with Duke, developed Puget's forward electricity trading operation. Initiated Puget's trading through the brokered over-the-counter electricity markets for western points of receipt. Helped establish and develop fundamental analysis techniques to support trading efforts. Trading goals for Puget included both hedge trading around their existing asset base and speculative trading within a well-defined value-at-risk mechanism.

Developed and maintained operational models for the optimization of Puget's hydroelectric generating projects. This included both spreadsheet tools and coding of computer programs to meet refill, flood control, and reliability uses of the projects while maximizing the financial value. Projects included the Upper and Lower Baker projects, the White River project, Snoqualmie Falls, as well as over 1,000 MW of

participant rights in the five non-federal Mid-Columbia projects (Wells, Rocky Reach, Rock Island, Wanapum, and Priest Rapids).

Maintained and ran a stand-alone copy of the Northwest Power Pool's hydroelectric regulation model. The primary purpose of this model was to support coordination of the northwest hydroelectric system as called for under the Pacific Northwest Coordination Agreement. Puget's independent model runs were made to support short-term operational strategies as well as to provide input to the long-term production costing models uses for ratemaking purposes.

**BONNEVILLE POWER ADMINISTRATION** SUMMER 1988
Portland, Oregon
***Engineering Intern***

Designed and programmed various aspects of the Accelerated California Market Estimator ("ACME") computer model, which simulates an economic dispatch of the Southwest electric generating resources in order to forecast the Southwest electric market through identification of the marginal resources. ACME was a subroutine of the SAM model, which was run for various purposes, including value justification of the construction of the Third AC Intertie to California.

## EDUCATION

**GONZAGA UNIVERSITY**, Spokane, Washington
Bachelor of Science, Physics with a Mathematics Minor
Magna Cum Laude