

# MARK P. MULLEN, P.E.

## SUMMARY OF QUALIFICATIONS

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Over 35 years of hands-on project experience in the energy industry. Capabilities encompass a broad spectrum of activities including all aspects of project management as well as green-field development and construction, plant expansion and modification, due diligence, and plant operations. Extremely strong project management skills demonstrated by successful completion of numerous and diverse energy related projects.

## PROFESSIONAL EXPERIENCE

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**11/09-Present Avangrid Renewables Portland, OR**  
***Regional Director***

- Provide engineering, technical, and project management services to Iberdrola's development and origination business in the western US. Services include preliminary civil and electrical engineering, site feasibility review, permitting support, due diligence reviews, and technology research. Responsible for establishing and maintaining scope, cost, and schedule.

**2/08-10/09 EdeniQ, Inc. Vancouver, WA**  
***Vice President, Projects***

- Responsible for development of pilot and demonstration scale plants associated with next generation (cellulosic) fuel ethanol plants. Managed integration and installation of new technology into existing ethanol plants. P&L responsibility for subsidiary company involved in green waste/biomass recycling and composting.

**6/06-2/08 Altra, Inc. Vancouver, WA**  
***Vice President, Projects***

- Managed green-field development of fuel ethanol production plants in numerous states. Activities included site selection, permitting, design, and contractor selection. Oversaw construction of three ethanol plants simultaneously via three separate EPC contracts and contractors.

**2002-6/2006 Baard Energy Vancouver, WA**  
***Vice President***

- Responsible for managing all facets of project development for liquid and solid fueled IGCC power plants, green-field fuel ethanol and biodiesel production plants, in addition to coal-to-liquid fuel production plants. Responsible for site selection, scope definition, permitting, EPC contractor selection and contract negotiation, construction project management, negotiation of offtake agreements and negotiations with equity and debt participants. Ultimate responsibility for project schedule and budget.

**1997-2001      Enron North America      Portland, OR**  
***Director***

- Provided project management and technical support on a wide variety of energy projects for the Enron West-Desk Power Origination Team. Managed and performed project development activities for green-field and brown-field power plants of varying technologies as well as expansion/re-powering projects at existing sites. Areas of responsibility included project scope definition, budgeting, environmental permitting, land use and local permitting, major equipment selection and procurement, EPC contract negotiation and administration, as well as engineering and construction oversight.
- Organized and managed numerous due diligence teams tasked with evaluating existing assets for potential purchase. Led technical teams in the evaluation of industrial customer's operations, resulting in energy optimization and maximization of power production. Assisted in preparing responses to numerous generation RFPs. Performed preliminary plant performance modeling (using GT Pro) for the evaluation of potential generation sites with various plant configurations. Provided ongoing asset management of company owned generating assets.

**1995-1997      First Point Convergent System      Portland, OR**  
***Supervising Project Manager***

- Performed as project manager on a diverse scope of projects for a start-up company providing high-voltage construction and maintenance services to the public and private sectors. In addition to comprehensive project management, duties included responding to RFPs, project estimating, and development of a subcontractor network.

**1992-1995      Portland General Electric      Portland, OR**  
***Senior Licensing Engineer***

- Responsible for a broad spectrum of licensing and permitting activities associated with the ongoing operation, maintenance and decommissioning of a nuclear generating plant. Project manager for a number of large, complex, one of a kind decommissioning activities. Effectively utilized communication and negotiating skills to interact with federal and state regulators, as well as numerous other stakeholders, on a daily basis in support of plant objectives.

**1983-1992      Public Service Company of Colorado      Denver, CO**  
***Project Manager/Professional Engineer***

- Provided project management on a number of large capital expansion projects at a nuclear generating facility including the licensing, permitting, design and construction of a one of a kind Independent Spent Fuel Storage Installation. Responsible for multiple facets of project management and engineering support for the ongoing operation and maintenance of the plant.

#### EDUCATION

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1988              University of Phoenix  
*Master of Business Administration*

1982              Colorado State University  
Bachelor of Science in Civil Engineering

#### PROFESSIONAL REGISTRATION

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Professional Engineer, State of Colorado No. 25480

#### PUBLICATIONS

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“Floor Response Spectra Generation for Asymmetric Structures Using Random Vibration Techniques,” M.P. Mullen et al., 10<sup>th</sup> International Conference on Structural Mechanics in Reactor Technology, August, 1989.

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