

# Mark Phelan

Languages: English (Native), French (Professional Level)

(b) (6)

## EXECUTIVE SUMMARY

---

- **Professional:** Ten years of experience in the electricity industry, focused on renewables project development and investing
- **Education:** Master of International Management, Master of Science in Management, and Honors Business Administration
- **International:** Jobs based in Atlanta, Toronto, Tokyo and Beijing; exchange semesters in Paris, Sao Paulo, and Hong Kong
- **Volunteer:** Former Treasurer and National Board Member, Projects Team, at Emerging Leaders for Clean Energy (ELCE)

## CORE TECHNICAL SKILLS

---

- **Project management**, including coordinating cross-functional internal teams and external consultants, and controlling budgets
- **Commercial negotiations and documentation**, including company purchase, real estate, and offtake agreements
- **Financial modelling and analysis**, including proficiency using Bloomberg, CapitalIQ, SNL and other industry data resources
- **Preparing investor documents, proposals and presentations**, including proficiency in MS Office (Powerpoint, Word, etc.)
- **Company, market, policy and regulatory research**, including proficiency analyzing legal documents and regulatory filings

## PROFESSIONAL EXPERIENCE

---

**Liberty Power (owned by Algonquin Power & Utilities Corp.), Atlanta, USA and Toronto, Canada**

**2019-Present**

*Director, Greenfield Development / Senior Manager / Manager, Business Development, Renewable Generation*

- **Project management (acquisitions)**, directing transaction processes to purchase 5 projects totalling 675 MW<sub>AC</sub> from three different sellers, including negotiation of commercial agreements, oversight of financial modelling, coordination of internal experts and external consultants for due diligence, and obtaining internal approvals
- **Project management (greenfield origination)**, directing greenfield site selection and development of 11 projects totalling 1,936 MW<sub>AC</sub>, including initial feasibility screening, securing land control, filing interconnection queue positions, initiating local stakeholder engagement, and conducting preliminary environmental permitting work
- **Team leadership**, managing six direct reports to increase pipeline of solar and wind projects, and support project development

**Shizen Energy Inc., Tokyo, Japan**

**2017-2019**

*Manager, International Business Development*

- **Project management**, directing internal functional teams and external advisors, negotiating with contractors, and arranging project finance, to develop and acquire renewable energy projects in Asia, Latin America and Africa
- **Business development**, originating project opportunities and building strategic partnerships with local developers and investors
- **Strategy development**, creating and executing entry strategies into emerging renewable energy markets in Asia, Latin America and Africa, including both centralized and distributed generation

**KPMG LLP, Toronto, Canada**

**2014-2016**

*Consultant, Deal Advisory – Infrastructure Investments*

- **Project development advisory**, supporting Utilities and Independent Power Producers to develop and construct solar, wind, hydro, biogas, and nuclear energy projects in North/South America (e.g. *OPG, Dream Alternatives, ZED*)
- **Project finance advisory**, assisting developers and financial investors achieve financial close for their power plants projects in North/South America (e.g. *InStarAGF, ZED, Genalta, AustrianSolar*)
- **Transaction services**, providing buy-side and sell-side services, including financial due diligence, to global infrastructure investors such as pension funds and infrastructure funds (e.g. *Hydro One, PSP, Firelight Infrastructure, Xeneca Power*)
- **Strategy and operations advisory**, including a core role in identifying approximately \$320 million of potential cost savings opportunities at *Hydro One*, which led to evaluating sale options for the company's shareholders, and then financial due diligence for the divestment of subsidiary *Hydro One Brampton* as well as a series of partial IPOs of *Hydro One* stock
- **Global policy, market and regulatory advisory**, educating Canadian energy developers and investors to create and execute entry strategies into foreign renewable energy markets in North/South America and Europe (e.g. *Enbridge International, Northland Power, CPPIB, Hydro One, Regional Power, Dream Alternatives*)

- **Canadian policy, market and regulatory advisory**, including lead roles to support Ontario's *ISEO* with the Large Renewables Procurement, and to help *CanSIA* draft and publish their feature *Roadmap 2020: Powering Canada's Future with Solar Electricity*; presented the key findings and recommendations during the keynote address to being *Solar Canada 2014*

#### AREVA Renewables, Beijing, China

2013-2014

(Internship) *Business Development Assistant to the Managing Director of Renewables, China*

- **Business development**, creating and delivering sales pitches focused on building long-term relationships with potential customers of AREVA's equipment technology for global wind, solar, biomass, and energy storage projects
- **RFP response**, including a core role on the bid teams responding to turbine supply tenders for CGN Wind's 150 MW Rudong offshore wind project in China, as well as Swancor's 128 MW Formosa offshore wind project in Taiwan
- **Legal and public document preparation**, including drafting MOUs and press releases for strategic partnerships with several Asian companies such as *KEPCO*, *CGNPC*, *CNPEC*, and *CGNWE*
- **Proposal development**, preparing proposals for the AREVA Group's Major Offers Committee regarding projects in Asia, as well as briefing memos for the CEO of AREVA Wind in Paris and the CEO of AREVA Asia in Beijing

#### OZZ Clean Energy, Toronto, Canada

2012-2013

(Temporary Position) *Executive Assistant to Vice President of Sales and Director of Legal Affairs*

- **RFP response**, assisting to prepare an eventually successful 15 MW bid by subsidiary Rethink Energy in a 1000 MW solar tender in Tamil Nadu, India, including exploration of strategic partnerships with potential contractors and co-investors
- Prepared agreements for the purchase of Canadian RiteRate Energy, organized the due diligence documents for the sale of subsidiary Sunwave Gas and Power Inc., and conducted the e-discovery for the defense of a subsidiary
- Exposed to all aspects of the solar business through project reporting, coordinating with various stakeholders, preparing a wide variety of contracts, and handling corporate records

## EDUCATION

---

#### CEMS – The Global Alliance in Management

*Master of International Management (MIM) – Double Degree with Ivey Business School MSc*

(b) (6)

- **International Internship in Beijing**, China, completed with *AREVA Renewables*
- **Exchange semester in Paris**, France, at *Hautes Études Commerciales (HEC)*
- **Exchange semester in Sao Paulo**, Brazil, at *Fundação Getulio Vargas (FGV)*

#### Ivey Business School at Western University (WU), London, Canada

*Master of Science in Management (MSc) - Double Degree with CEMS MIM*

(b) (6)

*Bachelor of Arts, Honors Business Administration (HBA)*

(b) (6)

- **Exchange semester in Hong Kong**, China, at the *Chinese University of Hong Kong (CUHK)*
- **Entrepreneurial Certificate and Co-President, HBA Entrepreneurship Club**
- **Young Entrepreneur Summer Company Award** from the Ontario Government
- **Continuing Scholarship** from WU, the largest undergraduate award
- **HBA Consulting Project**, in partnership with *BMO Bank of Montreal*, led to the development and execution of their "Smart Steps for Parents – Teaching Your Kids About Money" advertising campaign

## VOLUNTEERING

---

#### Emerging Leaders for Clean Energy (ELCE Canada), Toronto, Canada

2015-2017

*Treasurer and National Board Member (Projects Team)*

- **Financial management**, including responsibility for the not-for-profit organization's budget, bank account and all cash flows
- **Project development**, collaborating with partner organizations on behalf of First Nations and other NGOs to support unique, community-based solar projects that raise the profile and education level of solar within Canada (e.g. the combined 6.8kW solar PV + 1kW wind + 35.5kwh battery storage project at the *Orcalab Research Centre* near Alert Bay, British Columbia)
- **Public speaking**, including the keynote presentation at *Speaker Series: How Can Canada Become a Global Leader in Solar Energy* on April 17, 2015, at the *Centre for Social Innovation (CSI)*, a presentation at the *University of Toronto* on March 11, 2015, and a panelist role at *Ryerson's Centre for Urban Energy (CUE)* on March 31, 2016

**Wonbae Choi**  
**Director – Transmission and Interconnection**  
Liberty – Renewable Energy Group  
(b) (6)

**Education**

- The University of British Columbia, Master of Applied Science, Electrical Engineering, Degree received in (b) (6) Attended (b) (6) through (b) (6)
- Hanyang University, Bachelor of Science, Electrical and Computer Engineering, (b) (6)

**Professional Experience**

***Algonquin, Liberty Renewable Group***  
***Oakville, Ontario, Canada***

***Director – Transmission and Interconnection | June 2022-Present***

- Responsible for Transmission & Interconnection in the Business Development, leading in-house technical analysis
- Manages projects and provides technical advisory in the areas of transmission planning, renewable integration, market analysis and generation interconnection process and procedures.

***Samsung Renewable Energy, Inc.***

***Mississauga, Ontario Canada***

***Senior Engineering Manager | May 2020- June 2022***

- Responsible for setting up in-house generation interconnection analysis function and providing technical guidance and support to the ongoing utility-scale renewable interconnection on various renewable energy projects in the US and Canada including PJM, MISO, ERCOT, CAISO, Southern Company, GTC, PNM, TVA, Tri-state, APS, PacifiCorp, NV Energy and Xcel Energy.

***PSC – Power Systems Consultants***

***Vancouver, Canada***

***Account Manager – Systems Studies Consultant/June 2017-May 2020***

- As an account manager/team lead for PJM generator interconnection study team at PSC, my main role is to coach/ mentor/train consultants working for this account to ensure high quality deliverables by setting up an efficient process and technical tools for power system analysis.

***MCW Group of Companies***

***Vancouver, Canada***

***Consultant/May 2016-May 2017***

- Worked on various projects for the YVR International Airport. Reviewed short circuit, protective equipment coordination, arc flash hazard analysis and key interlock schemes in accordance with CEC, ANSI/IEEE, NFPA.
- Reviewed Vendor's shop drawings and supported during construction phase.

**KOGAS ARKKAS B.V.**

**Dubai, U.A.E.**

**Senior Electrical Engineer/April 2014-August 2015**

- Owner's engineer assigned to design and review the electric power system of gas process facilities and combined cycle power plant.  
Experienced in HV switching station and LV distribution system design.

**GS E&CGS**

**Seoul, Korea**

**Electrical Engineer Electrical Engineer/Jan 2010-March 2014**

- Performed overall power system studies including short circuit current calculations, load flow studies, motor starting studies, harmonic studies, protective relay coordination study, grounding calculation, Power Cable Sizing, UPS and Battery Charger Sizing and lighting illumination calculation.
- Prepared technical specification, requisition, material take-off and technical evaluations of major HV/LV power system equipment and bulk materials.
- Performed Site Acceptance Tests (SAT) for major electrical equipment such as HV/LV transformers and SWGR/MCC as a field electrical engineer.
- Performed technical bid evaluations, clarifications and attended and assisted in Factory Acceptance Tests (FAT) for major electrical equipment such as HV/LV SWGR/MCC and 110/34.5kV power transformers.

# Charles B. Burnham

(b) (6)

## PROFESSIONAL EXPERIENCE

---

### **Director, Government Affairs, Algonquin Power Fund America Inc. (Remote – Southington, CT)**

November 2022-Present – Full Time

- ▶ ***Responsible for advocating for policy, legislative and regulatory outcomes that help the Liberty Renewable Group business plans and protect its existing operational renewable assets***
  - Work with internal and external stakeholders to identify states and regions who legislative and regulatory structures and outlooks lends to future growth opportunities for the company
  - Work with local stakeholders and elected officials on permitting and lease agreements during development of renewable assets
  - Works with various trade associations and fellow members to track legislation and regulation at federal, state, and provincial levels

### **Project Manager, Project Services, Eversource, Hartford, CT**

April 2019-October 2022 – Full time

- ▶ ***Responsible for developing and managing stakeholder outreach strategies and tactics in support of energy infrastructure projects with a capital expenditure value of over \$100 million annually in Massachusetts and Connecticut***
  - Works directly with key stakeholders including state and local officials, businesses, property owners and special interest groups throughout the lifecycle of a project
  - Leads contracted resource staff of field outreach representatives that are designated liaisons between targeted stakeholder and project team subject matter experts
  - Develops project-specific outreach plans aimed at mitigating risk to projects' scope, schedule and cost due to stakeholder intervention
  - Mitigates project-related issues regarding property damage and perceived property value impacts in coordination with internal business partners including real estate, claims, and legal
  - Pro-actively executes notifications to various stakeholders regarding impacts of high-profile construction activities.
  - Manages project-related interactions with government officials to address municipal concerns
  - Oversees logistics associated with permitting and siting hearings and related processes conducted by local state siting organizations

### **Manager, Connecticut Regulatory Affairs, Eversource, Berlin, CT**

May 2016-March 2019 – Full Time

- ▶ ***Responsible for supporting company in all relations with state regulatory agencies on matters pertaining to utility regulation and energy policy***
  - Managed relationships between internal company departments and regulatory agencies to help advance company requests, petitions, or other initiatives
  - Served as internal regulatory subject matter expert and provided company leadership guidance on emergency response protocols, bill assistance programs, credit and collection practices, and retail supplier issues
  - Maintained knowledge of all relevant regulations, laws, policies, and constraints related to electric and gas business units including revenue requirements, rate design, and customer billing
  - Managed staff that successfully resolved over 3500 escalated regulatory complaints annually in CT and Western MA

### **Specialist, Community Relations and Economic Development, Eversource, Newtown, CT**

January 2014 to April 2016

- ▶ ***Primary company contact for all municipal officials in 15 communities in Western CT***
  - Managed strategic partnerships with key local stakeholders, including economic development agencies, opinion leaders, civic groups, and business leaders to advance company initiatives

- Represented the company in public settings including town and city council meetings, chamber of commerce events, and community meetings
- Leveraged relationships to troubleshoot, address and mitigate stakeholder and customer issues and complaints

### **Manager, Government & Regulatory Affairs, GDF SUEZ (now Engie)/FirstLight Power Hartford, CT**

March 2007 to December 2013 – Full time

- ▶ ***Served as primary company representative before state, regional and local elected and appointed government officials, regulatory bodies and agencies, industry associations, the media, and public stakeholders***
  - Advocated for policy, legislative and regulatory outcomes that advanced the GDF SUEZ business plans and protected its investments
  - Provided input and advice to diverse business units on the impacts and risks associated with any change in laws or regulations
  - Advocated company and industry positions through management of contract lobbyists and as a member of various state and regional trade organizations
  - Cultivated and maintained professional relationships and earned trust with key elected and appointed government officials, regulatory commissioners, state and local agency leadership and staffs
  - Executed public outreach efforts for multi-million-dollar generation development projects in CT, MA, and NY
  - Chief media spokesman for portfolio of generating facilities located throughout CT and MA
  - Researched, analyzed, developed, and oversaw drafting of appropriate state/federal regulatory filings on proceedings vital to company success

### **Press Secretary/Communications Analyst, CT State Senate, Hartford, CT**

August 2000 to March 2007 – Full time

- ▶ ***Responsible for communicating Senators' positions on legislative issues to state and local press***
  - Collaborated on development of legislative policy strategies
  - Composed press releases, legislative testimony, and district-wide mail
  - Booked Senators for interview spots and network news program appearances

## **EDUCATION and AWARDS**

---

*Master of Arts in Public Policy, Trinity College, Hartford, CT, (b) (6) – Part Time*

- *Graduate Grant Recipient*

*Bachelor of Arts in English, College of the Holy Cross, Worcester, MA, (b) (6) – Full Time*

- *Dana Scholar Recipient – Awarded to 5% of class for scholarship and community service*
- *Washington D.C. Program Selection*
- *Sigma Tau Delta Inductee– The International English Honor Society*

## **COMPUTER SKILLS**

---

MSOffice 365, Power BI, SharePoint, Focal Point, Adobe Acrobat 2020, C2-Customer Service System

**Mark Sanders**  
**Senior Director of Engineering**  
Smart Wires Inc.

(b) (6)

**Education**

Washington State University, Civil Engineering, BS, (b) (6)  
Whitworth University, Applied Physics, BA, (b) (6)

**Professional Experience**

***Smart Wires***

***Senior Director of Engineering | 2019-Present***

Oversee and directed all engineering efforts for deployment of Smart Wire's static synchronous series compensator devices around the globe. Contracted, managed, and reviewed work of numerous sub consultants to support all aspects related to deployment for successful installation of numerous projects. Collaborated with multidisciplinary teams to successfully install complex and diverse projects in substations and on transmission lines. Interface with utilities to provide design, installation, and constructability assurance.

***A2Z Engineering***

***Project Manager | 2013-2019***

Project manager facilitating all aspects of the engineering process from finding clients, proposal writing, engineering, drafting, submittals, and billing. My responsibilities working with the private sector have made me very versatile in the entirety of the engineering process, stating with communications to win projects and build relationships with clients, understanding business strategy and the building market to competitively price engineering services, performing engineering analysis and design to current code requirements, and supplying a professional and complete design package. Proficient at civil engineering design including storm water, wastewater, site development and water system design, as well as structural engineering including high-end residential and light commercial. Focusing primarily on high voltage transmission and substation design, including analyzing existing structures for retrofitting re-conductor projects, designing new substations, and new transmission lines, and completing creative designs for utilization of cutting-edge renewable technologies on existing infrastructure.

***Nomad GCS***

***Design Engineer | 2012-2013***

Designed custom and complex trucks or trailers for first responders, military, fire, and police. Nomad is a custom shop that builds all their own designs which allowed me to work directly with the production floor to efficiently troubleshoot or optimize intricate design challenges involved in each build. Designed for efficient builds, provided experience in thinking through the manufacturing process during a design. Interfaced with clients to provide technical expertise to support the sales team and ensure their confidence in our product was high.

***Black & Veatch***

***Civil Engineer | 2011-2012***

Design engineer on high voltage transmission line team to model, analyze, and design transmission lines for key clients including Pacific Gas & Electric, PacifiCorp, and Portland General Electric. Performed structural analysis on steel and wood structures for reconductor projects and new construction. Collaborated with electrical engineers, drafters, construction teams, environmental companies, and geotechnical firms to complete multimillion dollar contracts.

**Ted Bloch-Rubin**  
**Director of Business Development**  
Smart Wires Inc.

(b) (6)

**Education**

Stanford University, Civil and Environmental Engineering, MS, (b) (6)  
University of Maryland, Mechanical Engineering, BS, (b) (6)

**Professional Experience**

***Smart Wires***

***Director of Business Development | 2016-Present***

- Lead federal and state policy and regulatory efforts to create and improve market dynamics that support commercial goals.
- Develop and execute strategy for engaging stakeholders and participate in funding opportunities that facilitate commercial project success.
- Chair the Working for Advanced Transmission Technologies (WATT) Coalition, a 501c(6) nonprofit trade association for Grid Enhancing Technologies, focused on federal regulator lobbying and industry education.

***Calstart***

***Associate Project Manager | 2013-2015***

- Conducted field testing of advanced technology commercial vehicles, contributing major component sections to public-facing technical reports, market commercialization roadmaps, and white papers.

# ERICA VON PECHMANN

(b) (6)

## LEGAL EXPERIENCE

**LIBERTY/ ALGONQUIN POWER AND UTILITIES CORP., AUSTIN, TX (REMOTE)**

**May 2022 - Present**

*Director, Business and Legal Affairs*

*Vice President, Algonquin Power Fund (America), Inc. and its approximately 100 subsidiaries*

Provides legal and strategic guidance regarding solar, wind, and energy storage projects with a focus on maximizing returns while minimizing project and organizational risk

- Acts as lead counsel in acquisition, disposition, financing, tax equity, and offtake transactions
- Negotiates material project documents including PPAs, EPC contracts, O&M agreements, equipment supply agreements, asset management agreements, energy management agreements, and interconnection agreements
- Resolves project-level issues regarding site control, permitting, interconnection, and shared facilities
- Leverages network of external legal relationships to ensure appropriate staffing, scheduling, and legal budgets
- Manages dispute resolution, including advising regarding formal procedures, litigation, and settlement

**SIDLEY AUSTIN LLP, HOUSTON, TX**

**November 2017 - May 2022**

*Managing Associate, Project Development and Finance*

Represented renewable energy developers, Fortune 500 companies, private equity funds and financial institutions in all stages of project development, finance, tax equity investment, acquisitions, dispositions, and operational matters

- Negotiated and drafted primary deal documents and material project documents
- Leveraged real estate training to analyze site control arrangements and implement corrective strategies when needed, including review of title and survey, project leases, easements, and crossing agreements
- Supervised due diligence, including review of material project documents, litigation, permits, intellectual property, and directed local counsel review
- Managed closing checklists and oversaw production of deliverables to ensure timely, organized closings

**PAUL HASTINGS LLP, LOS ANGELES, CA**

**Summer 2015; September 2016 – November 2017**

*Associate, Real Estate*

Represented real estate developers, financial institutions, investors, lessors and tenants in all aspects of acquisitions, dispositions, financing, leasing, and structuring operational arrangements

- Negotiated and drafted purchase agreements, hotel management agreements, financing agreements, joint venture agreements, and related documentation
- Conducted due diligence review, including analysis of title, litigation, environmental, permits, and zoning

## PROFESSIONAL EXPERIENCE

**CHSPE SUCCESS!, LOS ANGELES, CA**

**May 2009 - December 2013**

*Founder/CEO*

Developed and launched boutique educational services firm that provided remote learning for child actors

- Developed curriculum and managed 5 instructors with more than 200 students annually
- Determined and executed marketing and development efforts including comprehensive web and print campaign, direct client outreach, and cross promotion

## EDUCATION

**HARVARD LAW SCHOOL, J.D., (b) (6)**

Honors: Dean's Scholar Prize, Controlling Shareholders (*awarded for top grade in class*)

**UNIVERSITY OF CALIFORNIA, LOS ANGELES, B.A. and M.A. *summa cum laude* in English, (b) (6)**

Honors: Phi Beta Kappa; Ralph J. Bunche Center Departmental Scholar (*sole nominee to simultaneously pursue bachelors and masters degrees*); Thompson Prize (*awarded for best honors thesis*); Highest Departmental Honors; UCLA Undergraduate Research Scholar

## OTHER

Named "Rising Star" by *Texas Super Lawyers Magazine* 2020;  
Licensed to practice in California (2016) and Texas (2017)

## INTERESTS

Food, wine, gardening, backyard chicken keeping, and bird watching

## **REPRESENTATIVE MATTERS (IN-HOUSE COUNSEL)**

- Acted as lead counsel for tax equity financing of a portfolio of 3 utility scale wind projects and construction financing of a utility scale wind project located in Pennsylvania
- Acted as lead counsel for construction loan for an approximately 87 MW utility scale wind project located in Pennsylvania
- Drafted and implemented a suite of preferred forms of real property agreements to ensure consistency of site control across the greenfield development portfolio
- Advised regarding portfolio-level threatened and endangered species mitigation strategy
- Provided counsel regarding interconnection strategy for numerous greenfield developments in MISO, 4 utility scale wind projects in PJM, and a co-located energy storage project in CAISO
- Prepared internal guidance on Inflation Reduction Act and resulting changes to tax strategy

## **REPRESENTATIVE MATTERS (PRIVATE PRACTICE)**

### **RENEWABLE ENERGY**

- Enyo Renewable Energy, LLC, a joint venture of MAP Energy and Enyo LLC, in connection with the sale of 6 utility scale solar projects (including optional energy storage components) located in Utah
- NRG Energy, Inc. in connection with numerous power purchase agreements for wind, solar, and energy storage projects located in Texas
- Cubico Sustainable Investments in connection with the acquisition, debt and tax equity financing of the 102 MW Midlands solar project located in South Carolina
- Cubico Sustainable Investments in connection with the acquisition of, and power purchase agreement for, the approximately 100 MW Longbow solar project located in Texas.
- 174 Power Global Corp., an affiliate of Hanwha Group, in connection with a secured hedge agreement with JPMorgan Chase & Co for the approximately 50 MW Oberon solar project located in Texas
- TerraForm Power, LLC in connection with the refinancing of a letter of credit facility for its approximately 266 MW Mount Signal solar project located in California, as well as various operational matters, including real property and co-tenancy arrangements
- Advanced Power in construction and term financing of an approximately 140 MW solar power generation facility in Texas
- Harrison Street Social Infrastructure Fund in connection with its equity investment in the 93 MW Bennington wind project located in Illinois
- Merrill Lynch Commodities Inc. and Citigroup Energy Inc. in connection with 10 secured ISDA hedge transactions for utility scale wind projects located in Texas

### **CONVENTIONAL POWER**

- Rockland Capital in connection with a public notes offering for \$388,000,000 of Senior Secured Notes due December 2030, a letter of credit and working capital facility, and intercreditor arrangements secured by a 1.5 GW portfolio composed of three simple cycle natural gas peaking power plants located in Illinois, Ohio, and Indiana
- Secured parties in connection with work out arrangements for lenders and secured hedge providers for an approximately 100 MW (net) natural gas-fired combined-cycle electric generating facility located in Nevada
- Secured parties in connection with work out arrangements for independent energy marketer of retail electricity, natural gas and solar products to residential and commercial customers

### **REAL ESTATE**

- Early stage developer in connection with real property matters for a distributed generation battery storage project located in New York
- Fortune 500 company in connection with real estate matters as lead outside counsel, including office leasing and dispositions of Texas real property
- Non-traded REITs and private equity funds in connection with the acquisition of, and/or hotel management agreements for, The Ritz-Carlton Bacara, Santa Barbara (formerly Bacara Resort & Spa), Charlotte Marriott City Center hotel, Oakland Marriott City Center hotel, Surfjack Hotel & Swim Club, Hotel del Coronado, and The Ritz-Carlton, San Francisco

# JAMES CHRISTOPHER EDWARDS

(b) (6)

## EXPERIENCE

### **Project Construction Manager**, August 2014 – Present (8.3 yrs.)

Algonquin Power – Liberty Utilities/ Oakville, Ontario, CA

- Oversee & Execute BOP, EPC, TSA & Installation of projects totaling over 900MW in North America and Canada
- Plan, Coordinate, and Manage BOP, EPC, TSA Contracts through all phases of Construction Activities (Civil, Foundation, Electrical, MV Works, Communications, Equipment Installation, Substation, and Interconnect, & Commissioning) through COD
- Assist in the Development of company Policy, Procedure, & Specifications
- Manage & Control Project Interface between Owner / Owner Representatives, Customer / Customer Representatives, Shareholders, Local, State, Federal Entities, & Landowners
- Assist Development & Engineering in all aspects of project development at all levels – Local, State, & Federal

### **Project Construction Manager**, May 2006 – January 2014 (7.9 yrs.)

GAMESA ENERGY/ TECHNOLOGIES USA., Philadelphia, Pennsylvania

- Oversee & Execute BOP, EPC, TSA & Installation of projects totaling over 800MW in North America
- Plan, Coordinate, and Manage BOP, EPC, TSA Contracts through all phases of Construction Activities (Civil, Foundation, Electrical, MV Works, Communications, Equipment Installation, Substation, and Interconnect, & Commissioning) through COD
- Assist in the Development of company Policy, Procedure, & Specifications
- Manage & Control Project Interface between Owner / Owner Representatives, Customer / Customer Representatives, Shareholders, Local, State, Federal Entities, & Landowners
- Assist Development & Engineering in all aspects of project development at all levels – Local, State, & Federal

### **Project Construction Manager**, June 2005 – February 2006 (7 Mon)

SUZLON WIND ENERGY CORP., Chicago, Illinois

- Oversee & Execute BOP, EPC, TSA & Installation of projects totaling over 70MW in North America
- Plan, Coordinate, and Manage BOP, EPC, TSA Contracts through all phases of Construction Activities (Civil, Foundation, Electrical, MV Works, Communications, Equipment Installation, Substation and Interconnect, & Commissioning) through COD
- Supervise, develop, & re-write of Global Wind Turbine Installation & Maintenance Manuals
- Assist in the Development of company Policy, Procedure, & Specifications
- Assist in global research & development – USA, Denmark, India, & Germany

### **Operations Manager**, March 2004 – June 2005 (1.3 yrs.)

VESTAS AMERICAN WIND TECHNOLOGY, Portland, Oregon

- Oversee O&M teams on over 145MW combined power plants
- Manage & Oversee 5 satellite offices in Atlantic Region & Cuba
- Oversee & Execute TSA & Installation of projects totaling over 45MW in Atlantic Region

### **Construction Manager / Site Operations Manager**, August 1998 – March 2004 (5.3 yrs.)

NEG MICON USA INC., Rolling Meadows – Chicago, Illinois

- Oversee O&M on over 130MW combined power plants

# JAMES CHRISTOPHER EDWARDS

(b) (6)

- Manage, Oversee, & Install projects totaling over 350MW across North America
- Supervise, develop & re-write of Global Wind Turbine Installation and Maintenance Manuals
- Assist in Development of company policy & procedure
- Manage & supervise 3 satellite offices in Atlantic Region & Cuba
- Assist in global research and development – USA, Denmark

## **Field Technician**, August 1997 – August 1998 (1 yr)

SEA-WEST WIND ENERGY CORP., Tehachapi, California

- Install, Maintain, & Repair Site Sub-Station, Transformer, & Transmission System
- Maintain, Repair, & Patrol 220KV Transmission Line
- Perform electrical maintenance & repair of wind turbine electrical components

## **Field Technician**, June 1991 – August 1997 (6.1 yrs.)

CANNON WIND ENERGY INC., Tehachapi, California

- Maintain, Repair, & Retro-fit wind turbine power plants
- Install, Maintain, & Repair Site Sub-Station, Transformer, and Transmission System
- Perform electrical maintenance and repair of wind turbine electrical components

## **EDUCATION**

Bakersfield College

General Studies, Attended in (b) (6)

(b) (6)

## **ACTIVITIES / HONORS**

- Vice Chairman of North American Health and Safety Committee  
NEG MICON USA INC. 1999 – 2004
- Member at large North American Health and Safety Committee  
SEA-WEST WIND ENERGY CORP. 1997 – 1998
- Member at large North American Health and Safety Committee  
American Wind Energy Association 2005 - 2006

## **EXPERIENCE / EXPERTISE**

- Team Building & Leadership
- Permitting & Building Codes, Construction Planning & Scheduling
- Safety & Compliance, Quality Control, Document and Critical Path Management
- Plan, Coordinate, & Manage BOP, EPC, TSA Contracts through all phases of Construction Activities (Geotechnical, Civil, Foundation, Electrical, MV Works, Equipment Installation, Substation & Interconnect (34.5 –kV-115/345kV), & Commissioning) through COD.
- Manage & Control Project Interface between Owner / Owner Representatives, Customer / Customer Representatives, Shareholders, Local, State, Federal Entities, R&D Testing departments & Landowners
- Erection & maintenance of FAA towers
- Provide training for company employees & sub-contracted companies in accordance with Company Policy and Procedure. Assist Development teams with land & project acquisitions
- First Aid/CPR/AED, OSHA 10, NFP 70E, Avanti Work Cage, Tower Ascent and Rescue / Fall Protection / Rescue Protocol Unassisted, Confined Spaces, SDS HAZMAT, DOT Awareness

**Donald S. Zinger**  
**Department of Electrical Engineering – Northern Illinois University**  
**DeKalb, IL 60115 (b) (6)**

**EDUCATION:**

Ph. D. - University of Wisconsin (b) (6)  
Thesis Title: Induction Motor Speed Control Using Tapped Stator Windings

MSEE - University of Wisconsin (b) (6)  
Thesis Title: Automated Perturbation Control Analysis of Electric Machines

BSEE - Illinois Institute of Technology (b) (6)

**TRAINING:**

Professional Engineering Registered in Illinois

**PROFSSIONAL EXPERIENCE:**

1993-present	Northern Illinois University, DeKalb, IL.	-Professor (2020-present) -Associate Professor (1999-2020) -Assistant Professor (1993-1999) -Interim Chair (2015-2017)  Taught classes in Electrical Engineering; initiated research in power electronics and motor controls.
Summer 2003	National Renewable Energy Laboratory, Golden, CO.	Developed software for investigating effects of wind turbines on power systems.
Summer 1998	Sundstrand Aerospace, Rockford, IL.	Worked with lightning compatibility of aircraft electronic components.
Summer 1995 thru 1996	National Renewable Energy Laboratory, Golden, CO.	-Association of Western Universities Summer Fellow Investigated the use of variable speed wind turbines in electric generation systems.
1988-1993	University of Akron, Akron, OH.	-Assistant Professor Taught classes in Electrical Engineering; initiated research in power electronics and motor controls; developed classes in power electronics, electric drives, and power systems.
Summers 1989 thru 1992	NASA Lewis Research Center, Cleveland, OH.	-ASEE Summer Fellow  Investigated the use of using electromechanical actuators to replace hydraulic actuators in aerospace applications.
1981-1988	University of Wisconsin, Madison, WI.	-Teaching and Research Assistant Taught laboratory courses in electrical engineering; performed research in the control of electric machines.
Summer 1983	Eaton Cutler Hammer, Milwaukee, WI.	-Research Engineer Installed software for small signal analysis of electric machines.
1978-1981	Midway Manufacturing Co., Franklin Park, IL.	-Electronics Design Engineer

(b) (6)

Developed hardware and software for video game systems; developed test procedures for these hardware systems.

1974-1977	S&C Electric Co., Chicago, IL.	-Cooperative Education Student
	Set-up and monitored tests of high voltage switching and protection equipment.	

**APPOINTMENTS:**

**University Service:**

- Collaborating with Dept. of Physics on ATLAS Low Voltage Power Supply for Tile Calorimeter. 2017 – present
- Advisor for IEEE Eta Kappa Nu honor society, 2017 – present
- University coordinator for the Rock River Valley section of the IEEE and Councilor for the Northern Illinois University student branch, 1994 - present.

### Committees and Memberships:

Academic Planning Council 2018 – present; Strategic Planning Taskforce 2018 – 2020; Department of Industrial and Systems Engineering personnel committee 2018 – 2020; University Council Personnel Committee, 2010 – 2014; Admission Policies and Academic Standards Committee, 2010 – 2016; Convocation Committee, 2007 – 2014; Bachelorette Review Task Force, 2008 – 2010; College Council, 2007- 2015; Committee on the Undergraduate Curriculum, 1997-2006 (Chair, 2005-2006); Outreach Advisory Committee, 2001-2007; Academic Policies and Procedures 2005-2008; 2009-2012; Faculty Senate, 2002-2005; Department Personnel Committee, 1999-2007; Curriculum Committee for the Department of Electrical Engineering 1996-present; Department Assessment Committee, 2006- 2015; Judicial Board, 1997,1998; Department Assessment Committee, 2006- 2015; Re-engineering Engineering Education Committee for the College of Engineering and Engineering Technology 1995

**Professional Activities:**

- Co-program chair, 2018 International Conference on Information and Computer Technologies
- Technical Program Chair, IEEE Electro-Information Technology Conference, 2015
- Treasurer, IEEE Industry Applications Society, 2010 - 2013
- Chair IEEE Region 4 Student Activities, 2009-2010
- Chairman Manufacturing Systems Development and Applications Department of the Industry Applications Society in IEEE, 2004 & 2005, 2015
- Vice Chairman for Papers - Industry Applications Magazine for the Manufacturing Systems Development and Applications Department of the Industry Applications Society in IEEE, 1999-2003
- Vice Chairman of the IEEE Rock River Valley Section, 2000-2002.
- Chairman of the IEEE Rock River Valley Section in IEEE, 1999-2000.
- Chairman of the Industrial Control and Automation Committee of the Industry Applications Society in IEEE, 1997-1998.
- Vice Chairman of the Industrial Control and Automation Committee of the Industry Applications Society in IEEE, 1995-1996.
- Student Branch Councilor for the IEEE NIU Student Branch, 1994 – Present
- Reviewed papers for IEEE Power Electronics Society, IEEE Industry Applications Society, IEEE Industrial Electronics Society, and the International Journal for Fuzzy and Intelligent Systems
- Collateral member of the Ohio Aerospace Institute 1991-1993; wrote proposals and attended focus group meetings for the institute.
- Member of the Technical Committee for the North Coast Power Quality Group 1991-1993
- Worked with Ohio Edison to investigate the establishment of an Electrical Technologies Center to demonstrate industrial uses of electrical technologies 1992-1993.

Jaime Ramos-Salas, Professor, Electrical and Computer Engineering Department, The University of Texas Rio Grande Valley (UTRGV)			
CONTACT: (b) (6)		ADDRESS: (b) (6)	
EDUCATION			
INSTITUTION	DEGREE	YEAR	FIELD OF STUDY
Instituto Politecnico Nacional, Mexico	BS	(b) (6)	Electrical Engineering
Stanford University, Calif	M. Engr	(b) (6)	Electrical Engineering
Stanford University, Calif	Ph.D.	(b) (6)	Electrical Engineering

**Research Areas:** Electric Power Systems. Renewable Energy. Energy Efficiency. Engineering Education I. built/established three solar facilities at UTRGV

#### Academic Positions

2005-2023 Lecturer, Assistant, Associate Professor and Professor. Electrical Engineering Dept. UTRGV  
 2001-2005 Professor of Science & Engineering. "Universidad Autónoma de La Laguna", Torreón México  
 1994-2000 Instructor National Electric Code courses, at Colegio de Ingenieros Mecánicos. Electricistas.  
 1988-2000 Professor. Instituto Tecnológico de Estudios Superiores de Monterrey", (ITESM) , at Torreón  
 1983-1987 Fulltime and parttime Professor. "ITESM", Toluca. México  
 1982 Visiting Scientist M.I.T. Plasma Fusion Center, in Cambridge MA. Design of tokamak's power

#### Professional Experience.

2019-2022 Associate Director, South Texas Industrial Assessment Center, ST-IAC  
 2017-2022 Energy/Water assessment to thirty seven local industries, as co-PI of the ST-IAC  
 2016 Visiting Professional at NREL's MIDC and ESIF facilities in Golden CO  
 2013-2014 Consultant to Gonzalez & Associates. Consultant to Roering, Oliveira & Fisher, Law Firms  
 2018-2013 Consultant to Texas Green, Solar & Wind Solutions, to Sigma HN Engineers, PLLC, to Sol Renewable Energy, LLC., and to Half Associates, in topics of Renewable Energy  
 2007-2022 Professional Engineer License No 100423. Texas Board of Professional Engineers. Advising local industry on Predominant Energy Studies  
 2018-2016 Recipient of \$ 2,267,000 grants as PI/co-PI of 5 grants from DOE and NSF in energy efficiency, PV solar and wind engineering education  
 2006-2008 Consultant to UTPA Physical Plant Maintenance and Operations, on Energy conservation  
 1992-2005 Code Inspector. Inspected more than 200 electrical installations such as mines, malls, factories, gas dispensers, offices, schools, health care buildings, medium and high voltage substations.  
 1990-2005 Design, Construction and Commissioning of Medium Voltage Distribution Circuits (> 20)  
 1991-2001 Founder and C.E.O "Taller Electrico Los Campos", at Torreón Mex. Maintenance, Installations, Testing of transformer losses. Consultant in Energy Savings industrial and urban networks. Certified by FIDE. Consultant to "Grupo Penoles", largest mining group in Mexico, At mines of Naica, 25,000 kVA, Fresnillo, 30,000 kVA, Tizapa, and Sabinas with 10,000 kVA each. Upgrade distribution voltage: 2,400 to 4,160 V and inspecting the security of the installations. Consultant to "Grupo Industrial Monclova" Repair and Test locomotive generators up to 3,000 HP. Energy Efficiency audit and implementation to Caleras de La Laguna (10,000 kVA), producer of lime  
 1987-1991 Engineering staff. "Productos Electrónicos de La Laguna", Torreón Mex. Manufacturing" of TV electronic components, such as yokes, flybacks and power supply transformers.  
 1984-1987 Research Staff and Project Leader. Electric Equipment Testing Laboratory of "Instituto de Investigaciones Electricas", in Cuernavaca Mexico. I.I.E.  
 1975-1983 Research Staff and Project Leader "Laboratorio de Plasmas del Instituto Nacional de Energia Nuclear" of Mexico.

### **Past Ten Years Publications.**

1. Jaime Ramos-Salas, Omar Barbosa (student). "Work in Progress: Solar radiation Lab with a Weather Station for Engineering Education" Submitted to the 2023 ASEE General Conference, Baltimore, MD
2. Miguel Pineda (student), Jaime Ramos-Salas "Student Training for Motor Performance Assessment in Industry" 2022 ASEE General Conference, Minneapolis, MN
3. Junfei Li, Jaime Ramos-Salas "Online Lab Experience for An Introduction to Electrical Engineering Courses" submitted to ASEE 2021 Annual Conference
4. M. Ben Ghalia, J. Ramos, H. Huq, V. Estrada. October 2016. "Engaging K-12 Teachers in Engineering through a Professional Development Program: Implementation, Strategies, Results, and Lessons, Learned" 2016 Frontiers in Education Conference, Erie PA,
5. J. Ramos, H. Moya, J. Saldivar, J. Ramirez (student). June 2016 "A Renewable energy undergraduate course underlining the Analysis of collected solar radiation" 2016 ASEE General conference, New Orleans, LA.
6. S. Santoso, J. Ramos, E. Muljadi. July 2014 "Laboratory Experiences at the University of Texas" Presentation at the Existing and Proposed Power Systems Laboratories for the Undergraduate Curriculum Panel, 2014 IEEE PES General Conference, WDC
7. J. Ramos, M. Valladares (student), June 2014 "University of Texas Pan American Solar Radiation Clearness and Variability Indexes" 2014 ASEE General Conference, Indianapolis, IN
8. S. Santoso, M. Lwin, J. Ramos, M. Singh, E. Muljadi. July 2014 "Designing and Integrating Wind Power Laboratory Experiments in Power and Energy Systems Courses" IEEE Trans Power Systems, **29**, 4, p 1944.
9. J. Ramos, E. Benitez (student). June 2013 "Hands on Experience for Students on an Energy Management System" 2013 ASEE General Conference, Atlanta, GA