

<b>Name:</b> Jason Mauch, Manager Asset Risk Management	
<b>Company:</b> Xcel Energy	<b>Email:</b> Jason.W.Mauch@xcelenergy.com
<b>Address:</b> 1800 Larimer Street, Denver, CO 80202	<b>Phone:</b> (b) (6)

### Role in this project

Jason Mauch will serve as a key point of contact to assist with the coordination and planning of the various wildfire mitigation related projects included in this grant request. In addition, Jason Mauch will be directly overseeing the implementation of the fire spread modeling software across the states of Colorado, Texas, and New Mexico as proposed in the grant.

### Summary of Relevant Background

Jason Mauch is an accomplished risk management professional with a diverse 25-year career that spans across the energy industry. He has extensive experience planning, budgeting, managing, and constructing numerous large capital projects at Xcel Energy over the past 15 years. Most recently, Jason Mauch has been focused on wildfire risk initiatives in his current role as Manager of Asset Risk Management.

### Education

Baker University, Masters (MBA) Business Administration, 2003

Wichita State University, bachelor's in business administration, 1998

### Professional Experience

#### Xcel Energy, Manager Asset Risk Management, 2018-present

- Provide regulatory support and assist in the development of wildfire mitigation plans.
- Perform quantitative risk modeling for wildfire risks on both the electric distribution and electric transmission systems.
- Evaluate the existing wildfire risk management plan and perform benchmarking and gap analysis reviews to identify key areas for improvement.
- Provide due diligence reviews and risk assessments for large capital projects.

#### Xcel Energy, Gas Project Manager/Manager Gas Strategy/Senior Risk Analyst, 2008-2018

- Managed the construction of two green-field natural gas compressor stations, the first located near Craig, CO and the second was built near Gunnison, CO.
- Provided program management and oversight for a \$50M per year portfolio of capital projects focused on the mitigation of MAOP issues on gas transmission pipelines.
- Provided risk analysis and reporting to Executive leadership and implemented multiple business process improvements within the gas organization.

#### Koch Industries Inc., Senior Market Risk Analyst, 2003-2008

- Communicated daily trading risk metrics and weekly P&L reports to executive leadership for a global, multi-billion-dollar energy trading organization.

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TA1-103-E

Topic 1 Resume

- Provided governance and validated trading activity was consistent with approved risk management policies and ensured segregation of duties and internal controls were followed.
- Reviewed daily trading activity and computed risk estimates using Monte Carlo simulation and historical stress scenarios. Identified and escalated issues to Executive leadership.

Koch Industries Inc., Senior Risk Analyst, 1997-2003

- Monitored daily trading activity to identify and minimize risk exposure that could threaten the financial stability of a multi-billion-dollar energy, commodity, and financial trading firm.
- Implemented reports and metrics to analyze risk/reward relationships of trading strategies.
- Tracked profitability of more than 250 commodity trading strategies; these metrics drove quarterly reports used by Executive management and credit rating agencies.

<b>Name:</b> Kathryn Valdez, Director Carbon-free Technology Policy	
<b>Company:</b> Xcel Energy Services, Inc.	<b>Email:</b> Kathryn.valdez@xcelenergy.com
<b>Address:</b> 1800 Larimer, Denver, CO 80202	<b>Phone:</b> (b) (6)

### Role in this project

Kathryn Valdez will serve as the business point of contact for this project. Kathryn Valdez leads the pursuit of new technology in partnerships with the Department of Energy. Kathryn also leads much of the Company's efforts to support Community Benefit Plan development and implementation as well as other state policies that enable pursuit of such projects.

### Summary of Relevant Background

Kathryn Valdez has been a leader in the energy and environmental policy area, including technology policy, for over 20 years. She supports policy development, outreach and education for advanced technologies that will accomplish the energy goals of the Company and its stakeholders.

### Education

Daniels College of Business, University of Denver, MBA, 2008  
Colorado School of Mines, BS Economics (Public Affairs Specialty), 2002

### Professional Experience

Xcel Energy (IOU serving 3.7 million customers in eight states) 2020-present

- Leading the Company's pursuit of Federal grants and other partnerships to reduce the cost and risk of clean energy investment. Includes support of entirely new business ventures like low carbon hydrogen
- Coordinating the Company's Carbon Free 2050 Strategic Initiative to select projects to implement today to ensure Xcel Energy can own and successfully operate the carbon free resources of the future. Includes strategy, policy and process development for identifying company needs, emerging technology solutions that meet those needs, and how to reduce the risk of investment in new technologies
- Leading transportation electrification policy development and advocacy at the state and federal levels; advocacy includes support of electric utility investments, integration with the Company's environmental strategy representing the Company in federal organizations.
- Developing gas distribution company environmental strategy. Strategy includes assessment of the entire natural gas supply chain, customer program development and technology deployment. Special emphasis on hydrogen opportunities for gas distribution, transportation and electric generation
- Leading the corporate working group for Environmental Justice including development of a position statement, understanding of the company's history on the topic and engagement with a broad spectrum of stakeholders to recommend supportive future action

Mapleton & Sloan, LLC (Boutique Energy Consultancy) 2015-2020

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TA1-103-E

## Topic 1 Resume

- Developed and implemented a \$10 million program for utility investment in EV infrastructure; program included input from key customer, municipal and community groups.
- Facilitated Colorado electric vehicle stakeholder workshops (6 workshops and over 350 attendees); responsible for event content and presentations. Content included explanations of new electric vehicle specific utility rates, emissions profile and system benefits.
- Evaluated the \$12 million Demand Side Management technology investments of a utility client; categorized the research and development projects, developed regulatory communications, and plans for future investment
- Reported on the state of drone use in electric utility asset management; provided project management for first of its kind program using unmanned aerial surveys for electric transmission asset management
- Proposed a best use analysis for an energy technology R&D facility

## Current Academic, Professional, or Institutional Appointments

- Active, appointed member of the Environmental Protection Agencies Mobile Source Technical Review Subcommittee, a subcommittee of the Clean Air Act Advisory Committee - part-time and voluntary
- Active, Co-Chair, Clean Technology R&D Subcommittee, Edison Electric Institute, part-time and voluntary
- Past Board Member, Denver Office of Sustainability Advisory Council
- Past Board Member, Colorado Cleantech Industry Association

## Professional Licenses, Awards, and Honors

Competent Toastmaster Award, Toastmasters International

<b>Name:</b> Alex Autio, Manager Planning & Performance	
<b>Company:</b> Xcel Energy	<b>Email:</b> alex.c.autio@xcelenergy.com
<b>Address:</b> 825 Rice Street, St. Paul, MN 55117	<b>Phone:</b> (b) (6)

### Role in this project

Responsible for planning of vegetation management activities including the Hazard Tree Clearing program in PSCo, Hazard Tree Identification using Satellite Imagery in all operating companies, and vegetation management Mainline Reclamation in High Reliability Risk circuits project scopes in all operating companies.

### Summary of Relevant Background

Alex brings an in-depth background in distribution electric design, as well as contract management. In his current role as Planning & Performance Manager, his responsibilities tie directly into the importance of implementing strategies and tracking for the implementation of the proposed programs to ensure their success and meet all desired outcomes.

### Education

University of North Dakota, B.S. in Electrical Engineering, 2022

Dunwoody College of Technology, Associate of Science in Electrical Construction Design and Management, 2009

### Professional Experience

#### Xcel Energy, Manager, Planning & Performance, 2021-present

Provides planning and analytics to Xcel Energy's Vegetation Management and Wood Pole Integrity programs, spanning across all jurisdictions and over \$80M in annual expenditures. Assists in development of strategy, tactical plans, and performance targets for VM staff and contractor resources with an emphasis on wildfire risk mitigation, electric reliability, safety, customer satisfaction, quality improvement, and regulatory compliance.

#### Xcel Energy, Operations Manager / Operations Program Manager, 2015-2021

Oversee the selection, deployment, management, administration and coordination of gas and electric contractors within Field Operations. Additionally, managing the design segments for gas and electric construction. Worked with cross functional teams to help streamline and deploy projects such as Electric Vehicle, Cable replacement, Pole replacement, Field area network {FAN/AGIS} early deployment, and Solar Gardens. Work to administer the policies and procedures of Field Operations to ensure safe, functional, and reliable Gas/Electric Distribution Systems while ensuring customer satisfaction. I have worked with several cross-functional teams ranging from Safety, local unions, generation facilities, transmission, sourcing, IT, and others to help adapt and achieve their goals to complete their projects.

#### Xcel Energy, Distribution Designer, 2012-2015

Development and Program Management of new Joint Trench developments assuring design and construction is following current standards. Development and Program management of

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TA1-103-E

Topic 1 Resume

Pole Replacement program for design and construction activities. Program management of Gable Replacement working for design and construction activities.

Tech Logic, Engineering Technician, 2011-2012

Electrical Engineering Technician. Develop electrical panel layouts and wiring schematics to be used for cabinet assembly, machine wiring and field troubleshooting. Develop BOM for purchasing and manufacturing. Work with assembly technicians to apply electrical drawings to products. Understand mechanical design requirements to provide appropriate supporting electrical schematics. Participate in overall System Integration and User Acceptance Tests. Work with designers and engineers to create and execute testing plans to check design concepts.

Tech Logic, Automation/Electrical Drafter, 2009-2011

Automation and Electrical Drafter. Create electrical schematics for automated material handling systems. Test prototype parts to help reduce cost. As well as testing our machines before shipping to make sure that they meet a Factory Acceptance test.

**Current Academic, Professional, or Institutional Appointments**

Board of Directors, Northern States Power Credit Union, part-time, paid for hours spent on board items.

<b>Name:</b> Andre Gouin, Clean Transportation Business Technology Consultant	
<b>Company:</b> Xcel Energy	<b>Email:</b> Andre.Gouin@xcelenergy.com
<b>Address:</b> 1800 Larimer, Denver, CO 80202	<b>Phone:</b> (b) (6)

### Role in this project

André Gouin will be responsible for the overall direction of the Managed Charging and Community Center Back-up Power portions of the project by providing project management and general oversight. In this role he will manage the external vendors delivering engaged for these projects and will coordinate project integration with Xcel Energy Program Managers.

### Summary of Relevant Background

A Mechanical Engineer with over 25 years' experience in the energy industry encompassing product development, project management, technical consulting, and strategy development for energy management, renewable energy, and demand response programs. Areas of expertise include renewable energy, battery energy storage technologies, demand response programs and electric vehicles. Over the past seven years I developed Xcel Energy's microgrid projects from its first battery plus storage microgrid for Panasonic to the Company's Community Resiliency Initiative projects in Colorado. Most recently I have led the Company's vehicle-to-grid research and innovation projects within Xcel Energy's Clean Transportation organization.

### Education

Northern Arizona University, B.S. Mechanical Engineering, 1988

### Training

No formal training; primarily on-the-job training experience

### Professional Experience

#### Clean Transportation Business Technology Consultant, Xcel Energy 2019-present

Providing technical subject matter expertise to the Clean Transportation team, leading research and innovation projects related to vehicle-to-grid technologies.

#### Product Development Business Technology Consultant, Xcel Energy 2008-2019

Developed customer focused products and services including renewable energy, demand response, and microgrid programs.

#### Product Portfolio Manager, Xcel Energy, 2006-2008

Managed a portfolio of Xcel Energy's energy efficiency programs.

#### Key Account Manager, Xcel Energy, 2004-2006

Provided account management services to a segment of Xcel Energy's largest and most complex customer base.

#### Technical Consultant, Xcel Energy, 1998-2004

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TA1-103-E

Topic 1 Resume

Provided subject matter expertise on energy efficiency and demand management products and services to Xcel Energy's customers and internal staff.

Project Manager, Energy Services Associates, 1995-1998

Managed and oversaw the implementation of energy efficiency retrofits for a diverse portfolio of customer types across Colorado.

**Current Academic, Professional, or Institutional Appointments**

Board Member, Past President, Rocky Mountain Association of Energy Engineers (RMAEE)

**Professional Licenses, Awards, and Honors**

Certified Energy Manager, Association of Energy Engineers, 1999-present

Certified Power Quality, Association of Energy Engineers, 1999-present

Authors: Peter Bronski, Panasonic; Beth Chacon, Xcel Energy; Matthew Crosby, Panasonic; Audrey Fogarty, Younicos; André Gouin, Xcel Energy; Terry Jennings, Panasonic; Björn Lang, Younicos; A PORTFOLIO MICROGRID IN DENVER, COLORADO How a multi-use battery energy storage system provides grid and customer services through a public-private partnership, 2017, <https://solar-media.s3.amazonaws.com/assets/Pubs/Younicos%20White%20Paper.pdf>



<b>Name:</b> August Ridder, Manager Vegetation Management Operations	
<b>Company:</b> Xcel Energy	<b>Email:</b> august.h.ridder@xcelenergy.com
<b>Address:</b> 1400 Western Avenue, Eau Claire, WI 54701	<b>Phone:</b> (b) (6)

### Role in this project

Responsible for management of vegetation management activities including the Hazard Tree Identification using Satellite Imagery, and vegetation management Mainline Reclamation in High Reliability Risk circuits project scopes at NSP.

### Summary of Relevant Background

August's educational background in Forestry, as well as his extensive work history in utility vegetation management are an ideal fit for involvement and oversight of the proposed programs. His current responsibilities include:

- managing RFP's, contracts and contractor relationships,
- project and program mgt and development of new veg programs,
- clearly defining scopes and specifications,
- and all for managing risk associated with reliability, safety, and regulatory compliance.

This set of experience and his credentials directly tie to the scope of the UVM related projects.

### Education

Michigan Technological University, B.S. Forest Management, 2011

### Training

- ISA Certified Arborist & Utility Specialist, IL-9285AU
- Wisconsin Commercial Pesticide Applicator
- National Ski Patroller Course, EMR Equivalent

### Professional Experience

#### Xcel Energy, Manager Vegetation Management, 2021-present

Manages Xcel Energy's vegetation management program across the NSP operating companies. Ensure attainment of performance targets for VM staff and contractor resources with an emphasis on electric reliability, safety, customer satisfaction, quality improvement, and regulatory compliance. Supervise four Program Managers and a program budget of ~\$60M annually. Lead communication between other VM supervision, contractor management, other company departments, external customers, and government agencies. Ensure compliance with NERC FAC003 requirements. Leads emergency storm work response efforts.

#### Xcel Energy, Program Manager, Vegetation Management, 2017-2021

Oversee successful execution of all vegetation work across NSPW Operating Company to meet budgetary, reliability, safety, and customer experience goals. Work with internal and external

## Topic 1 Resume

construction groups to provide project insight from the vegetation management perspective as well as estimates and scheduling. Build and maintain relationships with major external stakeholders such as tribal nations, federal, state, and city environmental departments. Pilot and lead departmental projects such as VMCM, CXT VegRequest, and field computer upgrades. Lead storm response for all of NSP vegetation management during escalated operations.

### Davey Resource Group, Project Supervisor, 2014-2017

Develop, support, and oversee 5 Field Supervisors and 45 Utility Foresters across five utility vegetation management programs. Track production and quality of programs to ensure benchmarks are consistently met and exceeded. Identify program inefficiencies and collaborate with GIS/IT personnel to implement tracking, data entry, and reporting innovations. Communicate with client to determine needs and interact with Field Supervisors to implement solutions. Manage Davey Resource Group fleet of 50+ vehicles on contract. Develop weekly, monthly, and yearly Vegetation Interruption Reports based on investigation field data to determine greatest vegetation risks.

### Keweenaw Land Association, Forester, 2012-2014

Prepared timber sales by identifying adequately stocked stands, implementing necessary property boundaries using Trimble GNSS and marking dominantly northern hardwoods in compliance with FSC standards. Spearheaded modernization of KLA cruise data gathering from paper to digital format. Cruised minimum of 3500 acres of KLA ownership per year. Created maps and updated harvest/cruise data using ArcMap 10.

## **Current Academic, Professional, or Institutional Appointments**

Wisconsin Urban Forestry Council, 2021 – present

- Sole Utilities Representative on state council

## **Professional Licenses, Awards, and Honors**

- ISA Certified Arborist & Utility Specialist, IL-9285AU
- Wisconsin Commercial Pesticide Applicator

<b>Name:</b> Brad Baldridge, Director Customer & Community Relations	
<b>Company:</b> Xcel Energy	<b>Email:</b> Brad.Baldridge@xcelenergy.com
<b>Address:</b> 790 S Buchanan St	<b>Phone:</b> (b) (6)

### Role in this project

Leads realization of planned community benefits and facilitation of company's engagement with impacted communities and customers.

### Summary of Relevant Background

Represents 5 years managing and directing community relations efforts in Xcel Energy's New Mexico and Texas service areas, and over 19 years of operations leadership working in the Texas and New Mexico area.

### Education

Texas Tech University, Electrical Engineering, Bachelor of Science, 1999

### Professional Experience

#### Xcel Energy, Director Customer & Community Relations, 2018-Present

Responsible for developing and maintaining strong working relationships and enhanced service levels to community and local governments, community organizations, and county representatives. Provide strategic leadership for management of community relationships and economic development in Texas and New Mexico.

#### Xcel Energy, Senior Director, Distributions Operations, 2014-2018

Provide visionary and strategic leadership to safely deliver customer, investor, and employee satisfaction. Responsible for the direction of employees and contractors for the overall electric distribution design and layout, construction, operations, maintenance, and emergency repair activities for Xcel Energy distribution systems including control center operations. Develop, approve, and manage multi-million dollar annual and long-term expense and capital financial resource budgets.

#### Xcel Energy, Director, Distribution Engineering and Construction, 2011-2014

Responsible for providing strategic leadership and direction for the Texas north electric distribution engineering design and layout, construction, operations, maintenance, and emergency repair activities for Xcel Energy distribution systems.

#### Xcel Energy, Manager, Distribution Design Engineering, 2004-2011

Led a team responsible for the engineering and operation of the electrical distribution system on the south plains of Texas and eastern New Mexico. Directed and provided technical expertise for the design and supervision of projects to extend electrical service to new customers.

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TA1-103-E

Topic 1 Resume

**Current Academic, Professional, or Institutional Appointments**

Board Member – Family Support Services, 2019-Present

Board Member – West Texas A&M Engineering Advisory Board, 2018-Present

Board Member – Amarillo Chamber of Commerce, 2023-Present

**Professional Licenses, Awards, and Honors**

Professional Engineer – New Mexico & Texas

<b>Name:</b> Craig Holt, Senior Director Grid Engineering		
<b>Company:</b> Xcel Energy		<b>Email:</b> Craig.Holt@xcelenergy.com
<b>Address:</b> 1123 West 3 <sup>rd</sup> Avenue, Denver, CO 80223		<b>Phone:</b> (b) (6)

### Role in this project

Oversee project scope related to distribution resiliency including non-auto reclosing relays system protection program, non-expulsion fuses, wind strength testing, and undergrounding for storm resilience on the Distribution system in Minnesota and Wisconsin.

### Summary of Relevant Background

Senior Director of Grid Engineering with over 16 years' experience in the electric power industry. Demonstrated strategic creativity and vision ensuring the health and operational efficiency of the Distribution System, employing the following skillsets:

- Innovator and key driver in regulatory and company strategy.
- Lead by example approach with high expectation and high reward mentality.
- Innovative solutions driving operational excellence.
- P&L management, optimizing spend to create efficiencies while adhering to budgets.
- Creative risk management through capital investment.

### Education

University of Idaho, Master of Engineering – Electrical Engineering, 2012

California State University, Fresno, Bachelor of Science – Electrical Engineering, 2006

### Training

PSMJ Project Management training

PSMJ Principals training

### Professional Experience

#### Xcel Energy, Senior Director Grid Engineering, 2022-present

Recognized broader system risk of aging infrastructure and developed capital replacement programs to mitigate the risk. This included company distribution assets and substation switchgear, which quickly expanded to larger assets such as transformers. Established system planning guidelines to support the Company's DER initiative while ensuring the operability and reliability of the distribution system. This was successful through a strategic regulatory effort and well-communicated execution plan

#### Xcel Energy, Distribution Area Engineering Manager, 2019-2022

Identified the need and spearheaded a broad philosophical change in the company approach to Distribution System controls and the advanced grid. This effort maximizes operational efficiency and reduces customer outage risk, by aligning Distribution, Substation, and Transmission organizations across the company and promoting an AGILE device control philosophy.

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Topic 1 Resume

TA1-103-E

Patterson Power Engineers, Protection Consultant, 2018-2019

Responsible to set relays and provided training for system protection engineers.

SEL, Brand Manager/Branch Lead/Engineer, 2013-2018

Responsible for financial planning of the office, maintaining P&L, business development, and served on the financial database steering committee. Also oversaw relay and commissioning work. Proposed and implemented earned value and deliverable tracking methods in financial software for an engineering organization of over 400 employees.

Southern California Edison, Protection Engineer/Test Support/Distribution Engineer, 2007-2013

Redesigned SCE's protection setting management database. The new design included validations, automated processes, better consistency, and transparency. Came up with and helped implement an automated process that pulled relay test results and summarized the data for compliance at SCE.

**Current Academic, Professional, or Institutional Appointments**

Committee Chair, Boy Scouts of America, remuneration received, part-time appointment

**Professional Licenses, Awards, and Honors**

Professional Engineer (PE)

Xcel Energy Innovator Award Recipient - for work on Wildfire Effort

**Publications**

Arc Resistance Coverage and Mho Expansion – The Devil is in the Details, paper, 2018,  
<http://relayman.org/papers/Arc%20Resistance%20Coverage%20and%20Mho%20Expansion%20-%20The%20Devil%20is%20in%20the%20Details.pdf>

C. Holt and M. J. Thompson, "Practical considerations when protecting mutually coupled lines," *2016 69th Annual Conference for Protective Relay Engineers (CPRE)*, College Station, TX, USA, 2016, pp. 1-16, doi: 10.1109/CPRE.2016.7914905.

<b>Name:</b> Ethan Trepp, Commercialization Manager	
<b>Company:</b> Xcel Energy	<b>Email:</b> Ethan.H.Trepp@xcelenergy.com
<b>Address:</b> 401 Nicollet Mall, Minneapolis, MN 55401	<b>Phone:</b> (b) (6)

### Role in this project

Oversee resiliency project with LaCrosse Wisconsin Water Treatment Plant.

### Summary of Relevant Background

Ethan is the program manager for the Empower Resiliency program at Xcel Energy that entails project origination and execution with Xcel Energy customers. Ethan has launched and managed numerous programs in the past and has spent over 12 years working in the renewable energy space.

### Education

University of Minnesota-Twin Cities, Masters (MBA) Business Administration

University of Minnesota-Twin Cities, B.A. Chemical Engineering

### Professional Experience

#### Xcel Energy, Commercialization Manager, 2022-present

Lead all aspects of development and operations of Xcel's first Resiliency as a Service offering, focused on deploying Distributed Energy Assets to commercial and industrial customers. Program leadership encompasses sales, engineering design, project management, financing, marketing, and operations.

#### 3M, Business Development, 2010-2022

##### **Director, Business Development, Microfluidics & Diagnostics** 2021 - 2022

Identify opportunities with new and existing customers for growth including financial analysis and contract negotiations in the point-of-care diagnostics space. Lead global teams, drive strategy, set priorities, manage portfolio, and manage marketing programs for the Microfluidics/Diagnostics portfolio.

##### **Director, Strategic Business Development, Immobilization & Auscultation** 2019-2021

Lead global teams, drive strategy, set priorities, manage portfolio, and manage marketing programs for the Immobilization business and Single Patient Stethoscope portfolio. Negotiated partnership agreements and lead portfolio optimization actions to transform mature business with minimal customer disruption. Reduced COGS by 4% and total SKUs by 20% on over \$50M in revenue. Provide strategic and tactical marketing leadership for new product launches in the Littmann® portfolio

##### **3M Drug Delivery Systems Division** 2016-2019

**Global Business Manager, Transdermal and Microneedle Systems**

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TA1-103-E

## Topic 1 Resume

Provided strategic and tactical marketing leadership to drug delivery businesses including key messaging, content development, and communication strategy. Directed Marketing Communications team to achieve external and internal campaigns and metrics. Led multidisciplinary team to define portfolio roadmap. Identified and quantified business opportunities including market sizing, market share projections and competitor activities for evaluation of development opportunities.

### **3M Renewable Energy Division**

**2010 – 2016**

#### **Channel & Market Development Manager, *Window Films***

**2012 – 2016**

Directed the development of 3M window film sales channels in 75 countries including negotiations with channel partners and key accounts. Developed new business models for transportation window film sales into new markets including marine, heavy equipment, large trucks, mass transit and automotive dealerships direct. Led global product launch teams for two new families of automotive window film.

#### **Product Development Engineer, *Solar Power Generation (3M contractor, Aerotek)***

**2011 – 2012**

Led a multidisciplinary team developing new materials for solar panel construction including all necessary plans and documents for driving products to market through NPI process at 3M.

#### **Business Development Manager, *Biofuels (3M contractor, Aerotek)***

**2010 – 2011**

Conducted full review of opportunities for 3M in the biofuels market with current solutions and new technologies. Quantified opportunities and evaluated paths to market. Identified customer and channel partner needs. Created presentations, promotional literature and plans to communicate program goals internally within 3M and externally to customers.

### **Stanley Consultants, Professional Engineer, 2007-2010**

#### **Stanley Consultants, St. Louis Park, MN**

**2007 – 2010**

#### **Project Manager and Process Engineer, *Renewable Energy Group***

Produced detailed process design, engineering reviews, and economic development plans for renewable energy projects including work in the ethanol, biomass power, concentrated solar power (CSP), and wastewater treatment fields. Marketed engineering services to the solar, wind and bioenergy industries. Analyzed multiple new technologies and accompanying economic factors for use in renewable energy generation facilities. Generated \$250K in annual sales to renewable energy customers.

### **Professional Licenses, Awards, and Honors**

Professional Engineer (PE), State of MN, In-Active



<b>Name:</b> Fletcher Johnson, Director Vegetation Management & Pole Integrity	
<b>Company:</b> Xcel Energy	<b>Email:</b> fletcher.l.johnson@xcelenergy.com
<b>Address:</b> 825 Rice Street, St. Paul, MN 55117	<b>Phone:</b> (b) (6)

### Role in this project

Oversee the planning and execution management of vegetation management activities including the Hazard Tree Clearing program in PSCo, Hazard Tree Identification using Satellite Imagery in all operating companies, and vegetation management Mainline Reclamation in High Reliability Risk circuits project scopes in all operating companies.

### Summary of Relevant Background

In addition to having an educational background in Forestry (University of Minnesota, BS in Urban Forestry), Fletcher has been with Xcel Energy since before it was Xcel - starting about 26 years ago. He has overseen and helped shape every aspect of the Company's Utility Vegetation Management (or UVM) program, leading up to his current role as Director of Vegetation Management and Wood Pole Integrity. This includes:

- managing RFP's, contracts and contractor relationships,
- project and program mgt and development of new veg programs,
- clearly defining scopes and specifications,
- and all for managing risk associated with reliability, safety, and regulatory compliance.

This set of experience and his credentials directly tie to the scope of the UVM related projects.

### Education

University Minnesota, College of Natural Resources, BS, Urban Forestry, 1997

### Training

- The Leadership Pipeline, Xcel Energy, 2012
- Certified Arborist, International Society of Arboriculture, Since 1999
- Utility Specialist, International Society of Arboriculture, Since 2003
- Certified Tree Inspector, Minnesota Department of Natural Resources, Since 1994
- Certified Pesticide Applicator, Minnesota Department of Agriculture, 2006-2015

### Professional Experience

#### Xcel Energy, Vegetation Management & Ancillary Programs, Director, 2014-Present

Direct Xcel Energy's vegetation management and wood pole inspection programs across companies eight state territory. Develop strategy, tactical plans, and performance targets for VM staff and contractor resources with an emphasis on wildfire risk mitigation, electric reliability, safety, customer satisfaction, quality improvement, and regulatory compliance. Lead internal staff with a program budget of >\$80M annually and >700 contracted workers. Lead communication between other VM supervision, contractor management, other company departments, external customers, and government agencies. Ensure compliance with NERC FAC003 requirements. Leads VM personnel in implementation of geospatial software solution for VM program.

Topic 1 Resume

Xcel Energy, Vegetation Management, Supervisor II, 2007-2014

Managed Xcel Energy's vegetation management program across the NSP operating companies. Ensure attainment of performance targets for VM staff and contractor resources with an emphasis on safety, customer satisfaction, quality improvement, and regulatory compliance. Supervise four Supervisor I's and a program budget of ~\$35M annually. Lead communication between other VM supervision, contractor management, other company departments, external customers, and government agencies. Ensure compliance with NERC FAC003 requirements. Leads emergency storm work response efforts.

Xcel Energy, Vegetation Management, Coordinator / Supervisor, 2001–2007

Managed Xcel Energy's vegetation management program in Minnesota metro area. Managed work teams and processes to meet scheduled work commitments. Ensured electrical system reliability, contractor productivity, budgetary/spend targets, work force safety, and customer satisfaction goals were achieved and/or exceeded.

Xcel Energy, Vegetation Management (Formerly NSP), Forestry/Line Clearance Services/Utility Forester, 1999-2000

Audit contracted tree trimming activities for quality of work and initiate corrective actions. Inspect and coordinate internal and external trimming requests. Consult with customers regarding balance of appropriate UVM practices and reliability requirements.

Forestry Professionals, Inc. Contractor-Northern States Power (NSP), Contract Utility Forester, 1997-1999

Audit contracted tree trimming activities for quality of work and initiate corrective actions. Inspect and coordinate internal and external trimming requests. Consult with customers regarding balance of appropriate UVM practices and reliability requirements.

City of Golden Valley, Park and Recreation – Forestry, Assistant Forester/Tree Inspector, 1996

Respond to resident vegetation inquiries. Inspect for Dutch elm disease in city and condemn trees requiring removal. Inspect private tree contractor work in accordance with city ordinance requirements.

Minneapolis Park and Recreation Board, Forestry Intern – Forestry Division, 1995

Respond to resident vegetation inquiries. Inspect for Dutch elm disease in city and condemn trees requiring removal. Inspect private tree contractor work in accordance with city ordinance requirements.

Rainbow Tree Care, Elm Care Crew, 1993

Crew member on a Dutch elm disease treatment prevention crew.

**Professional Licenses, Awards, and Honors**

- **Certified Arborist**, International Society of Arboriculture, Since 1999
- **Utility Specialist**, International Society of Arboriculture, Since 2003
- **Certified Tree Inspector**, Minnesota Department of Natural Resources, Since 1994
- **Certified Pesticide Applicator**, Minnesota Department of Agriculture, 2006-2015

<b>Name:</b> Jae Lee, Principal Engineer	
<b>Company:</b> Xcel Energy	<b>Email:</b> jae.s.lee@xcelenergy.com
<b>Address:</b> 1800 Larimer St. Denver, CO 80202	<b>Phone:</b> (b) (6)

### Role in this project

Responsible for developing and managing the transmission wood pole fire resistant coating/wrap program in PSCo

### Summary of Relevant Background

12 years of transmission line design and asset management experience (including developing and planning transmission line wildfire risk mitigation activities over the past 4 years).

### Education

The University of Texas at Austin, Bachelor of Science in Civil Engineering, 2011

### Professional Experience

#### Principal Transmission System Performance Engineer, Xcel Energy, Denver, CO (2016- Present)

- Create and maintain 5-year long term asset renewal capital project budget for over 4,700 miles of Xcel Energy transmission line assets in Colorado
- Evaluate Xcel Energy's transmission line asset importance, performance and condition to identify, prioritize, validate, and propose asset renewal projects
- Plan and manage special initiatives such as Wildfire Risk Mitigation and process improvement initiatives

#### Transmission Line Engineer, Lower Colorado River Authority, Austin, TX (2013-2016)

- Designed 69 kV, 138 kV and 345 kV transmission lines using PLS-CADD and PLS-Pole in accordance with NESC C2-2012, RUS 1724-E200 and LCRA internal design criteria
- Managed external engineering consultants and asset inspection contracts
- Created overall project cost estimates for various transmission line projects ranging from \$0.5M to \$50M

#### Associate Transmission Line Engineer, Isolux Corsan USA, Austin, TX (2011-2013)

- Created/reviewed structural load cases for various types of lattice steel towers and monopoles
- Analyzed 3D structure models using PLS-Tower and PLS-Pole
- Created weekly Standard Penetration Test progress reports
- Provided technical assistance to field engineers and subcontractors to resolve construction issues
- Assisted yard material coordinators with receiving materials and dispatching materials to subcontractors

### Professional Licenses, Awards, and Honors

- Licensed Professional Engineer in Texas and Colorado

<b>Name:</b> Jessica Lau, Grid Storage & Emergency Technology Manager	
<b>Company:</b> Xcel Energy <b>Address:</b> 1123 West 3 <sup>rd</sup> Avenue, Denver, CO 80223	<b>Email:</b> Jessica.K.Lau@xcelenergy.com <b>Phone:</b> (b) (6)

### Role in this project

Technical subject matter expert and group manager responsible for the utility-operated distribution microgrids and energy storage, including conceptualization, engineering, construction, safety, and operations & maintenance.

### Summary of Relevant Background

Jessica Lau has over 15 years of experience in power systems and integrating emerging technologies, whether to integrate the first flywheel in New England, finding solutions to resolve transmission bottleneck for wind, establishing a U.S. energy security modeling platform. Jessica is now leading Xcel Energy's DERMS strategy across 8 states for monitoring, dispatching, and coordinating with DERs owned by customers, developers, aggregators, and utilities.

### Education

Worcester Polytechnical Institute, Power Systems Management, M.S.

University of Massachusetts-Amherst, Electrical Engineering and Math, B.S.

### Professional Experience

#### Grid Storage & Emerging Technologies Manager - Xcel Energy, Denver, CO (JUN 2022 – PRESENT)

- Developing and implementing enterprise-wide DERMS strategy for cohesive DER monitoring and control, including strategy, integration plan, pilots and demonstrations
- Collaborates with ADMS and Grid Operators for system safety, reliability, and FERC Order 2222 futures.

#### Grid Planning & Analysis Manager - National Renewable Energy Laboratory (NREL), Golden, CO (DEC 2017 - MAY 2022)

- Led \$10M+ annual (\$22M total in 4 years) project portfolio in clean energy, resilience, electrification, and software development to inform local and national decision making.
- Co-Chair on DOE OE North American Energy Resilience Model (NAERM) to build situational awareness and planning for national energy security.
- Coached an 11-person group specialized in grid modeling & analysis, national renewable and transmission integration, interactive buildings, and emerging technologies.
- Formed two separate 40+ cross-functional teams for software modeling, national energy security and local community clean energy planning

#### Senior Distribution Planning Engineer - Orange & Rockland Utilities, Spring Valley, NY (MAY 2016 - DEC 2017)

BIL: Grid Resilience and Innovation Partnerships (GRIP)

TA1-103-E

## Topic 1 Resume

- Responsible for group's change management in grid modernization in NY Reforming Energy Vision (REV). Designed new utility earning adjustment mechanisms, and locational specific economic valuations for DERs.
- Conducted load forecasting, contingency planning, 20-year infrastructure planning, Non-Wire Alternatives (storage), underfrequency load shed, and protection design for 300k customers.
- Authored and supported rate cases, regulatory filings, and NERC audits.

### **System Planning Engineer - ISO New England, Holyoke, MA (MAY 2007 - APR 2016)**

- Conducted bulk system planning with production cost modeling for renewable integration and transmission congestion relief.

### **Current Academic, Professional, or Institutional Appointments**

Chair - Women in Energy, CIGRE United States National Committee, 2023-2024

### **Professional Licenses, Awards, and Honors**

NREL Partnership Award, 2020

IEEE Best Paper Award, IEEE Transactions on Power Systems, 2019

### **Select Publications & Presentations**

1. **Lau, J.**, Hale, E., and Heeter, J. September 2020. [Maximizing Distributed Energy Resource Value for All Stakeholders](#). Golden, CO: National Renewable Energy Laboratory. NREL/TP-6A20-76926.
2. Frew, B., Stephen, G., Sigler, D., **Lau, J.**, Jones. W., Bloom, A. 2019. [Evaluating Resource Adequacy Impacts on Energy Market Prices Across Wind and Solar Penetration Levels](#), The Electricity Journal
3. Faculty, "Planning for the Future Grid", Legislative Energy Horizon Institute, October 2019 & December 2020, Washington, DC & virtual
4. Presenter, "[Valuing Response Products and Curtailment in US Electricity Markets](#)", National University of Singapore Energy Studies Institute, Economics of Integrating Variable Renewables in Liberalized Electricity Markets, June 2019, Singapore
5. Presenter, "[Resilient Energy Systems: Risks and Challenges](#)", International Energy Agency Experts' Group on R&D Priority Setting and Evaluation Workshop on System Resiliency and Flexibility, May 2019, Vienna, Austria

<b>Name:</b> Kelly Flenniken, Director Community Relations	
<b>Company:</b> Xcel Energy	<b>Email:</b> <a href="mailto:kelly.flenniken@xcelenergy.com">kelly.flenniken@xcelenergy.com</a>
<b>Address:</b> 1800 Larimer Street, Denver, CO 80202	<b>Phone:</b> (b) (6)

### **Role in this project**

Leads realization of planned community benefits and facilitation of company's engagement with impacted communities and customers.

### **Summary of Relevant Background**

Represents 15 years managing and directing community relations efforts in both the public and private sectors.

### **Education**

Loyola University Chicago, Certificate from Institute of Paralegal Studies, 2023

Knox College, B.A. Political Science, 2001

### **Training**

American University, Washington Semester, American Politics/Public Law Seminar

### **Professional Experience**

#### Xcel Energy, Director Community Relations, 2020-present

Build, direct, and oversee both proactive and reactive communication and outreach plans in a variety of jurisdictions with project specific goals. Serve as Company spokesperson throughout Colorado's many media markets. Develop advocacy campaigns for local and state legislative issues. Convene and lead cross-functional idea sessions and team-building exercises. Lead a team responsible for relationship management with Colorado communities while maintaining a keen eye on the varying political landscapes. Lead the Corporate Social Responsibility arm of the Company inclusive of grants, employee engagement and additional philanthropic giving.

#### Xcel Energy, Area Manager Community Relations & Local Government Affairs, 2015-2020

Developed and maintained relationships with elected officials, community stakeholders, and other key influencers in the Rocky Mountains and Western Slope (territory included 27 cities and 8 counties). Maintained a comprehensive understanding of diverse political and energy issues and priorities. Served as the liaison between local governments and company operations. Led decision-making processes on local issues. Negotiated and implemented franchise agreements, other company programs, policies, and community initiatives. Advocated for Xcel Energy policies, programs, and regulatory filings in order to secure support from elected officials and other key stakeholders. Facilitated partnerships with organizations and communities to advance their energy goals including the successful execution of the first Energy Future Collaboration. Serve as the "face of the company" for the Rocky Mountains and Western Slope including on-camera interviews and responding to telephone and print media inquiries. Cultivated and executed sponsorship opportunities that provided mutual benefit for the community and company, building customer loyalty, and enhancing the company's brand.

#### Grand Junction Economic Partnership (GJEP), Executive Director, 2011-2015

BIL: Grid Resilience and Innovation Partnerships (GRIP)

TA1-103-E

## Topic 1 Resume

Oversaw all business operations including management/administration, financing and marketing for organization with a 22- member board of directors, several working committees, and over 125 private investors with the main objectives of consensus building, coordination of stakeholders and implementation of shared vision and goals. Developed strategy to diversify economic base by reframing natural resources as both what is below and above ground. This allowed for the strategic recruitment of outdoor recreation businesses and rebranding of the community. This plan is still being used today. Negotiated, managed, and monitored active incentive agreements.

### Grand Junction Economic Partnership (GJEP), Business Development Manager, 2008-2011

Prepared and implemented annual marketing and communications plan, including the first ever holistic social media campaign. All marketing work was completed on time and under budget. Served as project manager for relocations and/or expansions including assisting clients with applications for various business financing tools including local, state and federal funds and performance-based incentives. Implemented data tracking system for all client groups.

### City & County of Denver/Parks & Recreation, Management Analyst-Manager's Office, 2007-2008

Served as City Council Liaison; provided project updates as well as trouble shoot Council District issues. This included regular, standing meetings in all Districts with Council representatives and constituents. Presented departmental legislation to Mayor and all City Council Representatives.

### County of Denver-Parks & Recreation, Assoc. HR Professional-Hiring & Recruiting, 2006-2007

Developed hiring & recruiting strategy for all vacant positions within the department – ranging from part time laborer positions to Level One management positions. The staff in the department more than doubles in the spring and summer seasons (going from 750 employees to 1,800 employees within a 75–90-day window).

### City of Chicago, Asst. to the Commissioner/Dept. of Cultural Affairs/Mayor's Office-Special Events, 2004-2006

Tracked, monitored and reported on Department-wide performance measures per the directive of the Mayor of Chicago in order to ensure that the Department was compliant and on track with City goals. Relayed directives of the First Deputy and Department-wide policies; conferred with department managers on program operations and provided follow up on critical issues and status of assignments.

## **Current Academic, Professional, or Institutional Appointments**

- Clear Creek School District RE-1 Board of Education, Vice President, voluntary, elected position
- Colorado Succeeds, Board Member, voluntary
- Clear Creek Economic Development Corporation, President, voluntary
- Carlson Elementary PTA, President, voluntary
- STRiVE Foundation, Board Member Emeritus, voluntary

## **Professional Licenses, Awards, and Honors**

Paralegal, ABA Accredited, Loyola University

<b>Name:</b> Mark J. Nolan, Director Wildfire Program Execution	
<b>Company:</b> Xcel Energy	<b>Email:</b> Mark.J.Nolan@xcelenergy.com
<b>Address:</b> 1123 West 3 <sup>rd</sup> Avenue, Denver, CO 80223	<b>Phone:</b> (b) (6)

### **Role in this project**

Oversee Undergrounding High-Risk Circuits on the Distribution System project scope.

### **Summary of Relevant Background**

Mark has a strong electric utility background and a proven record of accomplishment over the course of his 19-year tenure with Xcel Energy. Relevant experience to this project includes engineering and design, project/program management, and high-level fiscal management of several, large electric distribution underground projects over the course of his career.

### **Education**

Colorado State University-Fort Collins, Masters (MBA) Business, 2015

Colorado School of Mines, B.S. Electrical Engineering, 2005

### **Professional Experience**

#### Xcel Energy, Director Wildfire Program Execution, 2022-present

Responsible for the direction, strategic leadership, and delivery of electric distribution wildfire mitigation efforts in Public Service Company of Colorado territory for an annual portfolio of approximately \$100M. The electric distribution portfolio includes, but is not limited to, the installation/replacement of small/tap primary conductor, open wire secondary conductor, covered primary conductor, underground primary conductor, poles, and various pieces of electric distribution equipment such as fuses, cutouts, arrestors, and reclosers. Responsibilities also include the coordination/communication of wildfire mitigation efforts with other internal/external entities and such as Transmission, Vegetation Management, Siting & Land Rights, customers, local and state government agencies, municipal entities, media, and regulators as required.

#### Xcel Energy, Manager Investment Delivery, 2020-2022

Responsible for the management and delivery of an aggregated annual electric distribution budget of \$675M for Public Service Company of Colorado and Southwestern Public Service Company. Typical activities included spearheading annual, long range budgeting activities across multiple business units to generate a 5-year capital budget that prioritized business needs and key strategic objectives. Additional activities included monthly quarterly, and annual analysis of financial and performance data to develop and implement strategies to maximize operational and financial performance while minimizing risk. The position is also responsible for maintaining the consistent application of strategies to maintain compliance with financial and regulatory compliance.

#### Xcel Energy, Project Manager – Electric Distribution System Planning, 2010-2020



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TA1-103-E

## Topic 1 Resume

Responsible for managing and delivering 15-25 complex electric distribution projects, both overhead and underground installations, with a total annual capital budget of about \$35M. Primary responsibilities included the planning, management, and directing of the scope, schedule, budget, resources, and risks for each project. Additional responsibilities also included overseeing and delegating work performed by cross functional teams to ensure project success. Deliverables included the development of strategic sequencing, detailed milestone schedules, and project level cost tracking and reconciliation analysis and documentation. Upon completion of each project, the role was also responsible for conducting postmortem project reviews to gain insights/lessons learned on how to streamline future project successes and replicate successes.

### Xcel Energy, Area Engineer/Area Engineering Intern, 2004-2010

Responsible for increasing electric distribution system integrity, reliability, and safety by examining empirical/physical data and implementing and managing mitigation/action plans to completion. Used common engineering practices to identify electric distribution capacity deficiencies and to implement cost effective solutions that maximize asset utilization, life cycle, and return on investment. Routinely provided engineering and technical support and asset management guidance to customers, design, construction, and operations. Also engineered solutions to mitigate abnormal system conditions, customer issues, and complex distributed energy interconnections and emerging technologies.

### Black & Veatch, Design Engineer, 2006

Responsible for the engineering development and revision of existing and new substation and transmission schematics, wiring diagrams, and cable lists utilizing applicable design standards, engineering codes, and customer/company policies. Utilization of project management skills to engineer customer projects within a specified scope, schedule, and budget.

## **Current Academic, Professional, or Institutional Appointments**

None

## **Professional Licenses, Awards, and Honors**

Project Management Professional (PMP), # 1917004

Professional Engineer (PE), # PE.0044958

<b>Name:</b> Nick D'Amico, Manager Vegetation Management Operations	
<b>Company:</b> Xcel Energy <b>Address:</b> 1123 West 3 <sup>rd</sup> Avenue, Denver, CO 80223	<b>Email:</b> Nicholas.e.damico@xcelenergy.com <b>Phone:</b> (b) (6)

### Role in this project

Responsible for management of vegetation management activities including the Hazard Tree Clearing program in PSCo, Hazard Tree Identification using Satellite Imagery in PSCo and SPS, and vegetation management Mainline Reclamation in High Reliability Risk circuits project scopes in PSCo and SPS.

### Summary of Relevant Background

Nick's educational background in Forestry, as well as his extensive work history in utility vegetation management are an ideal fit for involvement and oversight of the proposed programs. His current responsibilities include:

- managing RFP's, contracts and contractor relationships,
- project and program mgt and development of new veg programs,
- clearly defining scopes and specifications,
- and all for managing risk associated with reliability, safety, and regulatory compliance.

This set of experience and his credentials directly tie to the scope of the UVM related projects.

### Education

Pennsylvania State University, B.S. Forestry, 2022

### Training

ISA Certified Arborist, NJ-0910AU

ISA Utility Specialist, NJ-0910AU

PA Commercial Pesticide Applicator, 703517

Wildfire Suppression Course Certified, Idaho

### Professional Experience

#### Xcel Energy, Manager Vegetation Management, 2022-present

Manages Xcel Energy's vegetation management program across the PSCo and SPS operating companies. Ensure attainment of performance targets for VM staff and contractor resources with an emphasis on wildfire risk mitigation, electric reliability, safety, customer satisfaction, quality improvement, and regulatory compliance. Supervise four Program Managers and a program budget of ~\$30M annually. Lead communication between other VM supervision, contractor management, other company departments, external customers, and government agencies. Ensure compliance with NERC FAC003 requirements. Leads emergency storm work response efforts.

Topic 1 Resume

PPL Electric Utilities, Supervisor Vegetation Management, 2021-2022

Leads a team of six PPL management foresters as direct reports and indirectly five+ bargaining unit line clearance inspectors and 300+ vegetation contractors spread across the entire PPL Electric Utilities footprint. Direct accountability to ensure PPL meets state and federal requirements pertaining to vegetation management compliance standards. Acts as the primary interface with vegetation contractors on key performance indicators to drive ongoing improvement in overall safety, efficiency, reliability, and customer service. Strategize new work processes to reduce O&M expenditure while continuing to maintain and improve reliability and customer satisfaction. Leverage data to help improve overall strategy, forecasting and support new

PPL Electric Utilities, Forester, 2015-2021

Lead regional Distribution and Transmission vegetation management programs. Utilize safety, human performance tools and a constructive culture as the foundation for a highly functioning team. Proven success in proper management and forecasting of a multi-million-dollar annual vegetation budget

Universal Field Services, Inc., Right of Way Agent, 2014-2015

Responsible for acquisition of rights of way where required for transmission utility line construction. Utility and line construction liaison for customers affected by utility line construction. Research and verification of property ownership and existing utility easement rights

**Professional Licenses, Awards, and Honors**

- ISA Certified Arborist, NJ-0910AU
- ISA Utility Specialist, NJ-0910AU
- PA Commercial Pesticide Applicator, 703517

<b>Name: Nick Martin, Director, Strategic Outreach &amp; Advocacy</b>	
<b>Company:</b> Xcel Energy <b>Address:</b> 401 Nicollet Mall, Minneapolis, MN 55401	<b>Email:</b> Nicholas.F.Martin@xcelenergy.com <b>Phone:</b> (b) (6)

### Role in this project

Oversee demonstration of Microgrids Supporting Black, indigenous, People of Color (BIPOC) Community Resilience.

### Summary of Relevant Background

Mr. Martin is the company lead for the Resilient Minneapolis Project – Xcel Energy’s current initiative to install solar/battery microgrids to support resilience hubs serving African American, Native and other BIPOC communities, and the model for the demonstration we propose here. He led the regulatory effort to secure Minnesota Public Utilities Commission approval, the site selection process, ongoing engagement with the BIPOC microgrid host organizations, and is currently working with the company’s Grid Storage & Emerging Technologies, Distribution Engineering, and Regulatory teams to ensure successful project design and implementation.

### Education

University of California at Berkeley, Master of Science in Energy & Resources, 1999

Yale University, Bachelor of Arts in Music, 1994

### Professional Experience

#### Xcel Energy, Director, Strategic Outreach & Advocacy, 2022-present

- Co-lead Equity Stakeholder Advisory Group to advise company on equitable design of energy assistance, energy efficiency, renewable energy, and workforce diversification programs.
- Developed the Resilient Minneapolis Project to support resiliency through solar/battery microgrids at three Black, Indigenous and People of Color (BIPOC) community centers.
- Developed partnerships with Native American Tribes and Native non-profit organizations for community resiliency, energy efficiency, EV infrastructure, and carbon offsets.

#### Xcel Energy, Policy & Outreach Manager, 2020-2022

- Helped design corporate goal for net zero GHG emissions from natural gas by 2050. Led regulatory filings for the Natural Gas Innovation Act, a statute enabling gas decarbonization through renewable natural gas, hydrogen, electrification, geothermal and other resources.
- Expert witness for Public Utilities Commission proceedings in renewable energy, integrated resource planning, GHG accounting, and performance-based ratemaking. Support Government Affairs team in policy analysis for electricity, natural gas, electric vehicles and clean fuels.

#### Xcel Energy, Manager, Energy & Environmental Policy, 2013-2022

- Helped design company’s strategy for 80% carbon reduction by 2030 and 100% carbon-free electricity by 2050. Assisted in preparation of integrated resource plans.

BIL: Grid Resilience and Innovation Partnerships (GRIP)

TA1-103-E

## Topic 1 Resume

- Expert witness for Public Utilities Commission dockets in resource planning, CO<sub>2</sub> externality costs, electric vehicle programs, and clean energy.
- Provided analysis and advocacy strategy for EPA regulations, clean energy standards, cap-and-trade/carbon tax legislation, and low-carbon fuel standards.

### American Carbon Registry, Chief Technical Officer, 2009-2013

- Led development of over 20 carbon offset protocols in agriculture, forestry, land use, industrial gases, and methane capture. Managed public comment and peer review process. Responsible for project review, overseeing third-party verification, and verifier accreditation.
- Secured California Air Resources Board's approval of ACR as an Offset Project Registry for the California cap-and-trade market.

### Xcel Energy, Environmental Policy Analyst, 2008-2009

- Provided analysis and developed company positions for national GHG cap-and-trade legislation. Developed carbon offset pilot program for Colorado, including preparing testimony for Public Utilities Commission filing, securing approval, and advising on project selection.

### Winrock International, Program Officer, 2002-2007

- Managed \$3 million forest carbon program under the U.S. Department of Energy's West Coast Regional Carbon Sequestration Partnership.
- Prepared analyses of forest carbon sequestration, GHG mitigation, renewable energy and biofuels in United States, Guinea, Congo, Madagascar, Haiti and the Republic of Georgia. Led business development component of a \$20 million USAID Russia Far East forestry program, including coordinating forest industry trade missions to United States, China and Japan.

### Zuni Pueblo, Manager Zuni Forest Products & Services, 1997-2001

- Worked with Tribe's natural resource department to launch a business fielding Tribal crews to carry out forest health projects on the Reservation and adjacent lands, in partnership with US Forest Service, Bureau of Land Management, and state agencies.
- Hired staff, procured equipment, managed product design, pricing and sales, conducted market research, prepared business plans. Raised \$1 million in grants and contracts.

### Columbia River Intertribal Fish Commission, Fisheries Assistant, 1994-1995

- Conducted fisheries research and management planning for an intertribal organization representing four tribes with treaty rights to Columbia River fisheries.

## **Current Academic, Professional, or Institutional Appointments**

Minnesota Environmental Quality Board (Public Member, Congressional District 4, 2020-present)

Saint Paul Climate Justice Advisory Board (2021-present)

Board of Directors, Environmental Initiative (2017-present)

<b>Name:</b> Thomas Stegge, Senior Unmanned Aircraft Systems (UAS) Program Manager	
<b>Company:</b> Xcel Energy <b>Address:</b> 13620 Fenway Boulevard North, Hugo, MN 55038	<b>Email:</b> Thomas.S.Stegge@xcelenergy.com <b>Phone:</b> (b) (6)

### Role in this project

Manage the project scope related to drone use including Wildfire Safety Settings (WSS) Restoration Response Program for Electric Transmission and Distribution Lines and Unmanned Aerial System (UAS) Pole Inspection for Distribution Assets.

### Summary of Relevant Background

I have been involved with Xcel Energy's Unmanned Aircraft Systems (UAS) program since before it was a formalized effort. I led advancements in the deployment of the technology for indoor operations within our power generation fleet, turning it into a everyday tool for power plants across Xcel Energy's 8 state service territory. Eventually I gained a full-time role as a UAS Pilot and then Sr UAS Program Manager. Through these focused roles on UAS I have tripled the number of operations we conduct with UAS and continue to explore new applications of the technology that will reduce level of risk exposure to our employees and customers, as well as target focused efforts to enhance grid reliability/resiliency and keeping our customers' bills low. Xcel Energy has such a broad application for the technology that we get to invest, experiment, and see such a wide range of options to deploy and tools to develop. Our wide lens allows us to adapt single-use tools to an enterprise-grade operation.

### Education

University of Minnesota – Twin Cities, Bachelor of Aerospace Engineering & Mechanics,  
Aerospace Engineering & Mechanics, 2017

University of Wisconsin – Eau Claire, Bachelor of Science, Physics, 2017

### Training

Federal Aviation Administration, Part 107 Remote Pilot Certification

National Ski Patrol Association, Outdoor Emergency Care Technician

National Ski Patrol Association, Outdoor Emergency Care Instructor

Lean Management Training Cohort, St. Thomas University, 2019

### Professional Experience

Xcel Energy, Senior Unmanned Aircraft Systems (UAS) Program Manager, 2021 – present

Managing UAS operations across all of Xcel Energy's Operating Companies and developing new use cases. Building standardized operations language, training program, safety management system, and policy. Implement data management and analysis software development activities to efficiently extract value from mass data from remote sensing technologies deployed across

BIL: Grid Resilience and Innovation Partnerships (GRIP)

TA1-103-E

## Topic 1 Resume

the community. Managing partnership with the FAA for regulatory advancements for UAS operations.

### Xcel Energy, Unmanned Aircraft Systems (UAS) Pilot & Program Instructor, 2020 – 2021

UAS Pilot focused on safe operation of UAS across the enterprise while evaluating use cases, increasing awareness of capabilities, and driving UAS adoption through relationship building and change management. Responsible for the safe operation of UAS to execute on requested activities from various business units. Supporting UAS Program Manager in use case development, program development, and formalization/standardization of program.

### Xcel Energy, Operations Supervisor, A.S. King Generating Station, 2020 – 2021

Supervised an Operations Staff of 25+ individuals in support of the safe and efficient operation of a 550 MW supercritical coal fired power generation facility. Developing and revising operating procedures, maintenance scheduling, fuel handling, and equipment monitoring programs.

### Xcel Energy, Operations Manager, Black Dog Generating Station, 2019 - 2020

Career Development Assignment to fill in for an existing manager on military leave. Responsible for the safe operation of a 320MW 1x1 combined cycle unit, and a 240MW simple cycle combustion turbine power generation station. Managing the maintenance and outage planning activities to maintain reliable power generation.

### Xcel Energy, Plant Maintenance Planner, A.S. King Generating Station, 2017 – 2020

Maintenance Planner focused on scheduling and overseeing routine daily activities as well as supporting the planning and execution of overhauls and outages. Worked with maintenance management staff to develop daily and weekly schedules for facility maintenance plans. This facility contained a 550MW super-critical coal fired unit.

### Xcel Energy, Mechanical Engineering Intern, Black Dog Generating Station, 2015 – 2017

Assisting plant engineers with troubleshooting equipment, developing maintenance strategies, and planning and overseeing capital equipment replacement or upgrade projects. This facility contained a 320MW 1x1 combined cycle unit, and a 240MW simple cycle combustion turbine.

### Menards, Program Manager Intern, 2014 – 2015

Assisting in the management and coordination of the design and construction of 3 new distribution centers (over 1 million sq feet of warehouse space) in 3 states.

### T-Mobile, Retail Sales Associate, 2012 –2014

Providing customer assistance and sales to new and existing customers for a great cell phone purchase or upgrade experience.

## **Current Academic, Professional, or Institutional Appointments**

N/A

<b>Name: Trisha Duncan, Director Community Relations</b>	
<b>Company:</b> Xcel Energy <b>Address:</b> 401 Nicollet Mall, Minneapolis, MN 55401	<b>Email:</b> trisha.a.duncan@xcelenergy.com <b>Phone:</b> (b) (6)

### **Role in this project**

Leads realization of planned community benefits and facilitation of company's engagement with impacted communities.

### **Summary of Relevant Background**

Leading the Minnesota Community Relations team, Trisha has a good understanding of the community level interests pertaining to her team and the communities.

### **Education**

University of St. Thomas, Executive Masters (MBA) Business Administration, 2020

Bismarck State College, Electric Power Technology, 2017

MN State University Mankato, Master of Arts, Urban and Regional Planning, 2008

MN State University Mankato, Bachelor of Science, Marketing, 1999

### **Training**

Campaign Institute Certificate, Edison Electric Institute (EEI) from Georgetown University, 1999

Leadership Certificate, MN Chamber of Commerce, 2016

### **Professional Experience**

*Xcel Energy, Director, Minnesota Community Relations, October 2021-Present*

Oversee a team of nine Community Relations Managers through the Minnesota service territory. Our team is the primary face of the Company to the community. We lead all projects and initiatives with all levels of local government and embed ourselves within the communities, as we pride ourselves on being stewards of the Company where we operate and serve customers.

*Xcel Energy, Community Relations Manager, 2013-2021*

Worked with over 80 communities in southcentral Minnesota as the primary liaison of the Company in those communities. Worked with local governments, managed projects for the Company, and also was heavily involved with community organizations and business leaders.

*City of Belle Plaine, Community Development Director, 2006-2013*

Managed all functions of the community development department for the city, including economic development, planning and zoning, parks and recreation, housing and redevelopment, marketing and communications and the downtown design standards.



BIL: Grid Resilience and Innovation Partnerships (GRIP)

TA1-103-E

Topic 1 Resume

**Current Academic, Professional, or Institutional Appointments**

Chair, Board of Directors, YWCA of Mankato

This is a volunteer role spending approximately 10 hours/week.

Chair, Board of Directors, Visit Mankato

This is a volunteer role spending approximately 10 hours/week.

Hennepin Theatre Trust, Board of Directors Member

This is a volunteer role spending approximately 10 hours/week.

<b>Name:</b> Gregory Kresge, Senior Manager, Utility Engagement and Transportation Electrification	
<b>Company:</b> World Resources Institute (WRI) <b>Address:</b> 10 G Street, NE Suite 800, Washington D.C. 20002	<b>Email:</b> Gregg.Kresge@wri.org <b>Phone:</b> (b) (6)

### Role in this project

Gregory will provide technical expertise, project management and community outreach with electric school buses as energy storage devices capable of acting as emergency mobile power supplies for community benefits when not being used for student transportation.

### Summary of Relevant Background

Gregory is a proven manager with experience in various sustainability initiatives with the ability to adapt to new situations and environments. He is a change leader working in extremely dynamic situations with rapidly changing goals and requirements. He is also a collaborator and organizer utilizing relationships to facilitate advancement of common objectives. Gregory is an electric transportation professional and subject matter expert in the areas of vehicle-to-everything (V2X) technology using stored energy in vehicles to provide power to other electrical loads.

### Education

San Francisco Institute of Architecture, Doctor of Philosophy, Sustainability & Green Building, 2015  
San Francisco Institute of Architecture, Master of Business Administration, Sustainability, 2011  
University of San Francisco, Master of Science, Environmental Management, 1993  
University of California at Davis, Bachelor of Arts, Economics and Communications, 1987

### Training

Project Management (Lean Six Sigma), Architecture (LEED AP BD&C), Energy Efficiency (RESNET HESP)

### Professional Experience

#### WRI, Senior Manager-Utility Engagement & Transportation Electrification, 2021-present

Manage global non-profit Electric School Bus (ESB) Initiative electric utility engagements and planning to address new electric vehicle loads. Focus on the areas such as funding and financing solutions to close the existing price gap between diesel and electric buses, advocate for equitable and proactive electric utility assistance to underserved communities and promote grid resilience and disaster response potential with vehicle-to-grid (V2G) and vehicle-to-everything (V2X) integration.

#### Electric Companies, Electrification of Transportation Manager, 2019-2021

Worked collaboratively to further sustainability through electrification of transportation for the communities of the islands of Hawaii, Maui, Lanai, Moloka'i and O'ahu. Specific actions included implementation and management of Maui workplace charging; fast charging infrastructure installation through management; electric vehicle workforce development; increasing EV adoption in rural communities; and managed charging as a grid resource.

#### Maui Electric Company, Renewable Energy Projects Director, 2017-2019

Managed, coordinated, and directed the activities of the Renewable Energy Projects Division such as all distributed energy resources (DER), distributed renewable generation and electrification of transportation (EOT).

BIL: Grid Resilience and Innovation Partnerships (GRIP)  
Topic 1 Resume

TA1-103-E

Environmental Compliance Engineer, 2013-2017

Managed environmental staff within the Power Supply Department in the areas of air, water, waste and fuel to meet stringent federal and State regulatory requirements.

Interim Power Supply Manager, 2014-2015

Provided vision, leadership, and coaching to the Power Supply Department on the overall operation, maintenance, reliability, and efficiency of the electrical generation systems on Maui, Lana'i, and Moloka'i.

Environmental Specialist, 2011-2013

Designed and managed projects relating to air compliance with the federal emission standards for 44 total Maui Electric power generating units.

County of Maui (Maui, HI), Deputy Director of Environmental Management, 2007-2011

Appointed by mayor to protect public health and the environment through active management of solid waste and wastewater functions. Implemented the first plastic bag ban and innovative solid waste reduction initiatives.

Parson's infrastructure & Technology (Kaho'olawe, HI), Assistant Environmental & Natural Resources Manager/Senior Scientist, 2001-2004

Managed delineation and protection of native and endangered species and cultural artifacts for invasive cleanup actions.

World Environmental Services & Training (Saipan, CNMI), Consultant, 1994-2001

Provided general environmental consulting services related to hazardous waste and materials. Conducted legal and scientific review and technical investigation of hazardous materials.

Commonwealth Utilities Corporation (Saipan, CNMI), Environmental Planner, 1992-1994

Provided technical guidance on environmental issues concerning the electrical utility in project planning and implementation. Provided technical advice to other agencies on areas.

**Current Academic, Professional, or Institutional Appointments**

US Green Building Council Hawaii Chapter Member (2010-Present)

**Professional Licenses, Awards, and Honors**

- [2020 Energy Central Innovation Champion](#)
- Lean Six Sigma Green Belt (February 2016)
- Leadership in Energy & Environmental Design Accredited Professional in Building Design & Construction (June 2014)
- RESNET Home Energy Survey Professional (May 2011)

**Publications** - a selected sub-set

- Gregory Kresge and Hamilton Steimer, *Electric Vehicle (EV) Make-Ready Programs: Considerations for Utility Regulators for Electric School Buses and Beyond* (January 2023) [Electric Vehicle \(EV\) Make Ready Programs January 2023.pdf \(electricschoolbusinitiative.org\)](#)
- Gregory Kresge, *Power Planner for Electric School Bus Deployment - Nine Key Steps for School Districts* (October 2022), [esb-power-planner.pdf \(electricschoolbusinitiative.org\)](#)

<b>Name:</b> Lori Bird, U.S. Energy Program Director & Polksy Chair for Renewable Energy	
<b>Company:</b> World Resources Institute	<b>Email:</b> Lori.Bird@wri.org
<b>Address:</b> 10 G Street, NE Suite 800, Washington D.C. 20002	<b>Phone:</b> (b) (6)

### Role in this project

In her role as U.S. Energy Program Director, Ms. Bird will oversee the World Resource Institute resources responsible for the implementation and support of the project to develop a community shelter powered by electric school buses as well as any reporting deliverables.

### Summary of Relevant Background

Ms. Bird brings expertise with electric school buses, distributed energy resources, and supporting communities with implementation of equitable clean energy projects. She has extensive experience managing and implementing large multi-stakeholder U.S. DOE projects, including the DOE Communities to Clean Energy program.

### Education

Yale University, School of Environment, MES Environmental Management, 1997

Indiana University, B.A. in Economics and Environmental Studies, 1991

### Professional Experience

#### World Resources Institute, U.S. Energy Program Director and Polsky Chair for Renewable Energy, 2018-present

Currently leads the WRI U.S. Energy team, develops strategy, and manages 20+ staff. Oversees work in the areas of clean energy deployment, utility sector decarbonization, transportation electrification particularly electric school buses, power market reform, and equitable clean energy access in communities. Serves on core management team for the Electric School Bus Initiative. Supports the U.S. DOE Communities to Clean Energy program engaging with cities on topics such as deploying EV charging infrastructure, resilience hubs, and clean energy for low-income residents. Also supports cities in meeting their renewable energy targets. Contributes to thought leadership reports, including aggregation of distributed generation, EV charging with renewables, utility planning, and wholesale power market issues.

#### National Renewable Energy Laboratory, Principal Analyst / Markets and Policy Group / Strategic Energy Analysis Center, 1998-2018

Managed large U.S. DOE projects such as a Solar Energy Innovation Network. Served as technical lead coordinating analytical assistance to a group of project teams (e.g., PJM, regulators, states) exploring how to capture the full value of PV and DERs. In her role, Lori advanced grid integration of renewable energy through education of regulators, policymakers, utilities, and stakeholders about options for managing the variability and curtailment of renewables. She also advised states and international clients (India, China, Vietnam) on clean energy policy and markets. She supported expansion of clean energy markets through reports

BIL: Grid Resilience and Innovation Partnerships (GRIP)

TA1-103-E

## Topic 1 Resume

on state and federal renewable portfolio standard, annual voluntary purchase market status reports, work on utility program design.

U.S. Department of Energy, Contractor through LS Gallegos and Associates – Office of Energy Efficiency and Renewable Energy, 1997-1998

Assisted in implementing Million Solar Roofs Initiative, including preparing implementation plan, web materials, presentations, and public information.

Hagler Bailly Consulting, Inc., Boulder, CO, 1991-1995

Associate, (Research Associate 1991-1993), Environmental economics consulting

Co-authored economic and policy analyses for clients such as electric utilities, U.S. EPA, World Bank, on environmental costs of energy use, benefits of natural gas vehicles, climate change.

## Professional Licenses, Awards, and Honors

- **Awards:** American Solar Energy Society 2020 Award for Leadership in Solar Policy and Market Transformation; NREL President's Award, 2012, 2009; NREL Chairman's Award for exceptional sustained contributions, 2008
- **Boards:** Clean Energy Buyers Alliance Advisory Board; Previously: Green-e Green Pricing Board, Colorado Carbon Fund Advisory Committee, Environmental Tracking Network of North America
- **Guest lecturer:** University of Denver Law School; University of Colorado
- **Certifications and courses:** Solar Energy International PV installer courses PV 101, 102, and 202 PV with battery storage; LEED Green Associate (2015-2017); WECC Power System Operations
- **Personal:** EV owner, live in house with solar PV and passive solar, enjoy outdoor activities

## Publications

Ms. Bird has published more than 150 articles on clean energy, including in academic/trade publications, such as: *Energy Policy*, *Climate Policy*, *Renewable and Sustainable Energy Reviews*, *Electricity Journal*, *Energy & Environment*, *Wind Engineering*, *Corporate Environ. Strategy*, *Public Utilities Fortnightly* h-index 26; i10 index 56. Selected recent reports include:

- [Using Renewables for Electric Vehicle Demand: A Review of Utility Program Designs and Implementation Strategies](#) Hutchinson, N. and L. Bird, WRI Working Paper, Nov 2019
- [Solar + Storage Synergies for Managing Commercial-Customer Demand Charges](#) NREL/TP-6A20-70360 Gagnon, P., A. Govindarajan, L. Bird, G. Barbose, N. Darghouth, A. Mills 2017
- [Integrating Renewable Generation into Grid Operations: Four International Experiences](#) PNNL-25331 M. R. Weimar, M. E. Mylrea, T. Levin, A. Botterud, E. O'Shaughnessy, L. Bird, 2016
- [Wind and Solar Energy Curtailment: A Review of International Experience](#) L. Bird; D. Lew; M. Milligan; E.M. Carlini; A. Estanqueiro; D. Flynn; E. Gomez-Lazaro; H. Holttinen; N. Menemenlis; et al. *Renewable and Sustainable Energy Reviews* Vol. 65, 2016

<b>Name:</b> Sue Gander, Director – Electric School Bus Initiative	
<b>Company:</b> World Resources Institute	<b>Email:</b> Sue.Gander@wri.org
<b>Address:</b> 10 G Street, NE Suite 800, Washington D.C. 20002	<b>Phone:</b> (b) (6)

### Role in this Project

In her role as Director of the Electric School Bus Initiative, Ms. Gander will lead the World Resource Institute in the support, implementation and development of a community shelter powered by electric school buses as well as any reporting deliverables.

### Summary of Relevant Background

Ms. Gander has over two decades of experience at the intersection of energy, transportation and resiliency. She has unique knowledge of the school bus industry and its connections to the electric vehicle, charging infrastructure and utility sectors as well as equity and environmental justice stakeholders. She has managed several multi-year, multi-million-dollar DOE awards.

### Education

University of Wisconsin-Madison, Master of Arts - Public Affairs & Public Policy, Certificate in Energy Analysis and Policy, 1993-1995

Brown University, Bachelor of Arts - Public Policy & American Institution, 1985-1989

### Professional Experience

#### World Resources Institute, Director, Electric School Bus Initiative, 2021 - Present

Currently leads a five-year, \$30M initiative to electrify the U.S. fleet of 480,000 school buses by 2030. Manages work of 30+ staff members. Provides thought leadership across the electric school bus ecosystem by hosting working groups and presenting findings at conferences.

Developing guidance documents, case studies, tools and other resources; documenting and sharing best practices and lessons learned.

#### Electrification Coalition, Managing Director, Policy, 2020-2021

Lead state, federal and local policy advocacy to accelerate adoption of electric vehicles including for school bus electrification incentives, regulatory and policy measures, financing and resiliency strategies. Established State EV Policy Accelerator, EV Policy Showroom and Rapid Response Policy Program. Advisor for Grid Security Project, including Vehicle to Grid Initiative. Recognized thought leader on EVs. Built and oversaw team of 12 staff; shape communications; support fundraising; manage consultants.

#### National Governors Association, Director, Energy, Infrastructure & Environment Division, Center for Best Practices, 2007-2020

Led NGA state policy program for energy, infrastructure and environment, as part of senior management. Directed Chair's Initiative for four governors, spearheaded multi-year projects on transportation electrification, resiliency, financing, energy storage. Lead over 10 workshops on electric vehicles. Created Resilient States Initiative. Established Governors' Advisors Learning Networks on Energy, Transportation, Water & Outdoor Recreation. Developed policy analysis, guidance and toolkits. Briefed congressional staff and engaged federal agencies on impacts of

## Topic 1 Resume

legislation and regulation on states. Built extensive network and formed strategic partnerships with international/federal/state/local government organizations, industry officials, trade associations and public interest groups.

### U.S. Environmental Protection Agency, Program Manager, State and Local Energy & Environment Program, 2001-2007

Advanced state clean energy policy solutions, coordinating across the Office of Air and Radiation. Represented EPA on New England Governors Climate Change Action Plan Steering Committee and Western Governors Association Energy Efficiency Task Force. Established Clean Energy-Environment State Technical Forum.

### Center for Clean Air Policy, Government Relations & Public Affairs Manager, Senior Policy Analyst, 1994-2001

Directed state initiatives on climate change and ozone including State Climate Change Roundtable. Engaged congressional leaders in push for federal climate change cap and invest program. Participated in international climate change negotiations including having led aviation emissions reduction efforts. Led three-year US-German exchange program on brownfield redevelopment.

### U.S. Department of Justice, Senior Budget Analyst, Budget Analyst, Civil Division, 1989-1993

Supervised team of analysts in formulating annual budget, provided briefs to Deputy and Assistant Attorney Generals.

## Professional Licenses, Awards, and Honors

- **Awards:** Top Women in EV 2023 (EV Summit)
- **Leadership:** Founder, Women of Electric Vehicles DC Chapter (2020 to present)
- **Advisory Roles:** New York State Energy Development and Research Authority (NYSERDA) Electric School Bus Stakeholder Advisory Group; Former: Board Member, Forth (2019-2021); Member, Keystone Energy Board (2009-2021); Board Advisor, IBTS (2008-2020)

## Publications

Ms. Gander has contributed to dozens of reports and papers on the topics of transportation electrification, energy, resilience and grid modernization. One example includes:

- Electrifying Freight: Pathways to Accelerating the Transition, co-author, Electrification Coalition, November 2020. <https://electrificationcoalition.org/wp-content/uploads/2020/11/Electrifying-Freight-Pathways-to-Accelerating-the-Transition.pdf>
- Governors Staying Ahead of the Energy Innovation Curve: A Policy Roadmap for States, co-author, National Governors Association Center for Best Practices, July 2018. <https://www.nga.org/wp-content/uploads/2018/08/Energy-Innovation-Roadmap-August-2018.pdf>
- Governors Staying Ahead of the Transportation Innovation Curve: A Policy Roadmap for States, co-author, National Governors Association Center for Best Practices, July 2018. <https://www.nga.org/wp-content/uploads/2018/07/Transportation-Innovation-Roadmap-Final-Hi-Res-for-Posting-Online.pdf>

<b>Name:</b> Amelia Longo, Senior Manager, Program Delivery	
<b>Company:</b> Weave Grid Inc.	<b>Email:</b> (b) (6)
<b>Address:</b> 375 Alabama Street, Suite 325, San Francisco, CA 94110	<b>Phone:</b> (b) (6)

### Role in this project

In her role as Senior Manager of Program Delivery, Dr. Longo will oversee the WeaveGrid resources responsible for the implementation and support of the functionality described in the proposal as well as any reporting deliverables.

### Summary of Relevant Background

Amelia brings more than six years of experience in the energy industry, where she started with a focus on energy data and migrated into Distributed Energy Resource Management System (DERMS) program implementation and support. She has worked with Xcel Energy to support electric vehicle programs for nearly two years.

### Education

(b) (6)

(b) (6)

(b) (6)

### Training

(b) (6)

### Professional Experience

(b) (6)

(b) (6)

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<b>Name: Kyle Garton, Senior Director-Product Management</b>	
<b>Company:</b> Weave Grid, Inc.	<b>Email:</b> (b) (6)
<b>Address:</b> 375 Alabama Street, Suite 325, San Francisco, CA 94110	<b>Phone:</b> (b) (6)

### Role in this project

Technical scoping, product development, and implementation support for the WeaveGrid demonstration scope of Xcel Energy private LTE project.

### Summary of Relevant Background

Kyle Garton has over a decade of experience working with Distributed Energy Resources, Smart Grid applications, and utility IT/OT infrastructure, including responsibilities related to cybersecurity. This includes experience with U.S. Dept. of Energy projects in partnership electric utilities and national labs.

### Education

(b) (6)

### Training

(b) (6)

### Professional Experience

(b) (6)

(b) (6)

**Professional Licenses, Awards, and Honors**

- (b) (6)