

# Jonathan Berry

Global DEI Manager – Ecosystems & Community

**Future Grid role:** Implementation Co-Lead

[Jonathan.Berry@nationalgrid.com](mailto:Jonathan.Berry@nationalgrid.com)

## EDUCATION:

- Master's in Engineering, Electronic & Electrical Engineering, University of Leeds, UK, 2006

## PROFESSIONAL EXPERIENCE:

### National Grid (2020 – Present)

- Vice President, Electric Product Delivery - Lead the development and delivery of a product technology strategy enabling step change transformative development within the US Electric transmission and distribution sector. This focusses on ensuring enterprise level products are in place to meet customer, stakeholder and shareholder need in a changing utility environment; engaged in enabling the net zero transition. Drive effective cross-functional product management, leveraging digital delivery techniques to significantly and successfully reduce time to deliver and benefit realization, whilst ensuring product is considered and leads to empowered end user adoption.
- Data & Digitalization Manager - A new role within the organization, responsible for the development, implementation and delivery of WPD's Digitalization Strategy focused on the transition to a data-centric approach within the organization, employing effective governance, digital focused business transformation, delivering advanced technology solutions to improve business operation and enable seamless customer engagement and interaction. Jonathan established a three phased approach to deliver digitalization effectively: improving data management, increasing network insight and operation, and delivering for stakeholders. This delivered the foundation of a centralized data governance approach within the organization, implementing industry leading solutions for the capture, management, and use of data to meet current and future needs. Utilizing an outcomes-based approach Jonathan led the implementation of a number of products revolutionizing the operation of the business, including automation of network design functionality, digitalization of field force management, empowerment of customers through an open data access portal and digital engagement solutions, enterprise data catalogue implementation delivering a single source of data truth throughout the organization and automated data mastering solutions. As part of this

role, he built a dynamic and effective multidisciplinary team consisting of a broad range of skills and capabilities, such as solution architects, data engineers, analysts, program managers, data scientist and insight specialists to deliver an ambitious and effective program. Jonathan drove the digitalization agenda for the organization over their next price five-year control period, converging on a strategy driven around a fit for future digital architecture and further empowering employees, customers and stakeholders through digital solutions to meet net zero aims.

#### Western Power Distribution (2019 – 2020)

- Innovation Manager - Core responsibilities were the development and management of a wide-ranging innovation program. As part of this he developed and delivered WPD's industry leading Innovation Strategy; setting out how the business uses innovation, the governance process followed to maximize the benefit from the innovation program and the key areas of focus in the short, medium, and long term to deliver technical and commercial innovation to support the changing needs of the distribution network. In his first year in this role, he increased the output from the Innovation Team by 48%. He was responsible for delivering a program of innovation projects covering a broad spectrum of technology readiness levels from small-scale desktop-based feasibility studies working with academic institutions through to large-scale demonstration projects (£5-20m) in partnership with multinational organizations. The total program value was typically between £30-50m. Whilst in this role Jonathan shaped a number of future system operations and customer experience solutions now implemented throughout the UK distribution network industry.
- Innovation & Low Carbon Networks Engineer - His key responsibilities in this role were devising, developing, project managing and acting as technical lead for several innovation projects funded through Ofgem's (UK energy regulator) regulated mechanisms and transitioning project learning into business-as-usual delivery. Within this role Jonathan delivered, as well as several small-scale (£100k to £1.5m) projects, WPD's two largest value and complex engineering and systems focused innovation projects, FlexDGrid (£17m) and Network Equilibrium (£14m). As part of this role, he delivered tangible operational business change through implementation of a number of innovative solutions into a business-as-usual environment, such as dynamic system optimization and rating and autonomous control functionalities.

## David Lovelady

Director of Distributed System Operations (DSO) – Future of Electric Department

**Future Grid role:** Implementation Co-Lead

[David.lovelady@nationalgrid.com](mailto:David.lovelady@nationalgrid.com)

### EDUCATION:

- Bachelor's in Engineering, Electrical Engineering, The University of Manchester, Manchester, UK, 2007
- Higher National Diploma, Electrical Engineering, West Cheshire College, Chester, UK, 2004

### PROFESSIONAL EXPERIENCE:

#### National Grid (2017 – Present)

- Director of Distributed System Operations (DSO), Future of Electric Department - Currently driving the company's DSP/DSO evolution with a focus on the following topics: DER integration, energy storage, NWAs, microgrids, distribution automation, retail market developments and DERMS, to support NY REV policies and CLCPA goals (Climate Leadership and Community Protection Act). In addition, Mr. Lovelady heavily contributes to development of National Grids long term strategic plans.
- Principal Engineer - Led the technical and economic implementation of NY REV policies and National Grids strategic vision into distribution system planning, covering topics such as: Microgrids, Distribution Automation, Value of DER, Integrated T&D Planning, Non-Wires Alternatives, Distributed Energy Resource integration, Next generation planning data, Forecasting

#### Siemens PTI (2009 – 2017)

- Manager, Power Academy - Responsible for driving aggressive growth strategies, development of new training courses and services and the management of a team consisting of engineering instructors, sales, marketing, course coordinator and administration staff.
- Sr. Consultant, Power System - Provided consulting services, conducting power system studies on transmission and distribution systems including microgrids, distributed generation, distribution automation, motor starting and transmission generator interconnection planning projects for onshore and offshore wind turbines, solar thermal, combined cycle gas, pumped hydro storage and biomass technologies.

**PROFESSIONAL MEMBERSHIPS:**

- Voluntary Member of the IEEE Power & Energy Society and the IET in the UK. No compensation provided
- Voluntary Member of the IEEE P2030.2 Smart Grid Working Group on Energy Storage Interoperability. No compensation provided

# William Roger Armstrong III

Network Architect

**Future Grid role:** IT Telecom SME

Will.Armstrong@nationalgrid.com

## EDUCATION:

- Master of Science in Electrical Engineering, University of North Carolina Charlotte, NC, 2005.
- Bachelor of Science in Physics, Minor in Mathematics University of South Carolina, Columbia, SC, 1997.

## PROFESSIONAL EXPERIENCE:

### National Grid (2022 – Present)

- Network Architect - Digital Transformation SME for National Grid, US. He provided guidance and support for transition of legacy SONET network to MPLS-TP based network and developed detailed technical requirements for transport of traditional TDM-based services such as C37.94, T1, E1, and 4-Wire over packet optical transport. William created requirements documentation for sync and timing recovery using synchronous Ethernet and PTP (IEEE 1588) to support Circuit Emulation over Packet, IEC-61850 SV, and Synchrophasor PMUs (C37.118) and designed high-availability NMS server architecture for to be used for OAM and provisioning of future MPLS platform. Additionally, William provided recommendations for DER communications using SD-WAN and private cloud-based solutions

### Duke Energy (2014 – 2022)

- GRID SOLUTIONS ENGINEER - Designed Field Area Networks using fiber transport and 900MHz Ethernet radios in point-to-point and point-to-multipoint for transport of IP data and L2 IEC-61850 (GOOSE) messaging, including selection of radio and antenna equipment. Designed and implemented backhaul solutions over corporate WAN using leased fiber, MPLS, and RF to transport SCADA, SNMP, and HTTPS applications. Created automation logic using IEC 61131-3 and DNP3.0 to implement monitoring and control of battery storage systems and Microgrid applications on SEL RTAC platform. Led a student research project at UNC Charlotte developing Load forecast and Battery optimization algorithms using Machine Learning. Defined communications requirements for Teleprotection, Synchrophasor data using C37.118, and Time Synchronization protocols such as NTP and PTP. Developed automation apps using Python and YAML that were run

on containerized platform using Docker Swarm. Developed requirements to dispatch DER aggregations per FERC order 2222 for RTO's including PJM and MISO. Lead Engineer in charge of integrating DER into the Distribution Grid using real-time control and communication systems, developing corporate standards compliant with IEEE 1547. Participating member of EPRI Program 174. Created Python scripts to analyze grid data, automate fault reporting, and detect anomalies; SQL queries in Ambari Hadoop to analyze AMI voltage data. SME for Cyber Security appliances and architecture.

## **Ozan Baskan, P.E.**

Engineering Manager, Distribution Control Center

**Future Grid role:** Labor Engagement Lead

[Ozan.Baskan@nationalgrid.com](mailto:Ozan.Baskan@nationalgrid.com)

### **EDUCATION:**

- Master of Business Administration (MBA), University of Massachusetts Lowell, Manning School of Business, Lowell, MA, **2023** (Present)
- Master of Science, Power Systems Management, Worcester Polytechnic Institute - 100 Institute Road, Worcester MA, **2011**
- Bachelor of Science, Electrical and Computer Engineering, Worcester Polytechnic Institute - 100 Institute Road, Worcester MA, **2008**

### **PROFESSIONAL EXPERIENCE:**

#### National Grid, 2012 - Present

- Employee and Labor Relations Director – lead the function for the Company’s New England management and represented workforces, which includes approximately 3000 employees covered by 15 local unions and 13 collective bargaining agreements. Lead and act as chief spokesperson for all collective bargaining negotiations; Bargained 16 replacement collective bargaining agreements and acted a Chief Spokesperson during a 7-month lock-out of the two largest Massachusetts gas unions
- Employee & Labor Relations Manager - provided guidance and assistance to all levels of Management in employee and labor relations matters, participated in collective bargaining negotiations, resolved conflicts, and developed constructive labor relations strategies, including developing and delivering of appropriate training.

#### City of Boston, Office of Labor Relations, 2008 - 2012

- Labor Counsel - represented the City in arbitrations, Civil Service Commission and Division of Labor Relations hearings for both civilian and sworn employees, drafted legal opinions, correspondence, and policy interpretations, and provided day to day legal advice to department managers.
- Legal Intern Counsel - Drafted post-arbitration briefs and proposed decisions for submission to the Civil Service Commission and requests for findings to the Division of Labor Relations.

#### Seyfarth Shaw LLP, 2008

- Summer Associate - Conducted research and drafted legal memoranda on a wide variety of topics and analyzed company documents for compliance with state law in connection with an internal wage hour audit.



## Deepthi Barrett

Director, Digital Products, NY Transformation Office

**Future Grid role:** Network-Adaptive DER Connections Lead

[Deepthi.Barrett@nationalgrid.com](mailto:Deepthi.Barrett@nationalgrid.com)

### EDUCATION:

- M.S. in Systems Engineering, University of Pennsylvania, PA, 2008
- B.S. in Electrical Engineering, Purdue University, IN, 2006

### TRAINING:

- Leading SAFe (Scaled Agile Framework) – 2022
- Influencing negotiation with tactical empathy – 2022

### PROFESSIONAL EXPERIENCE:

#### National Grid (2017 - Present)

- Director, Digital Products - Manage the delivery of digital products and stakeholders across businesses & IT. Enable electric business and IT departments to develop solutions within a multi-disciplinary digital product team by establishing governance, embedding design thinking and customer centricity, and implementing digital process & change management. Lead Network Utilization digital portfolio of products that enables NY & MA electric businesses to reduce interconnection times and maximize the utilization of the network (including Network Adaptive- DER Connections product).
- Director, Rhode Island Transition Services Management - Managed estimation of service costs across all businesses including electric, gas & customer and developed financial model for billing transition services. Led team to manage \$200M RI business services divestiture including separating complex IT systems, recovery of stranded costs, and transition between senior leadership at National Grid and PPL. Stood up TSA management governance and stabilized the service delivery post-sale. Led negotiation of transition services and service billing between National Grid & PPL.
- Manager, Strategic Planning - Managed the development of business cases for strategic initiatives and the the intersection of annual business plan (financial) and strategic plan. Led US strategic planning and managed \$150M portfolio of strategic initiatives including clean energy initiatives, digital and data products for US business transformation. Managed the intersection of annual business plan (financial) and strategic plan.

Developed content and presented at Strategy & Change Board and Project Evolution leadership meetings

- Lead Business Partner, Advanced Data Analytics - Responsible for identifying opportunities, problem engineering and managing delivery of solutions for electric and gas businesses. Developed advanced data analytics products for electric & gas operations to improve efficiencies by \$850k annually. Responsible for identifying savings of \$1M per year in operating expenses through automation of New York City roadwork permit renewal process and implementing the automation project.

#### KPMG (2010 – 2017)

- Manager, Regulatory & Compliance Analytics - Responsible for business and account development including preparing proposals, deliverables, identifying opportunities, pitching ideas and presenting product demos. Managed business development for pharma clients of data analytics portfolio worth \$1M. Developed complex analytical models to improve efficiencies for financial and pharmaceutical industries. Developed predictive models for anti-bribery surveillance at Goldman Sachs, improve efficiency of services for J&J, and improve compliance reporting for 10 pharmaceutical companies.

#### **SPEAKING ENGAGEMENTS:**

- Ai4 conference – “Embedding AI within Utility Company’s DNA” in 2020
- ExL Pharma Aggregate Spend and Sunshine Act Summit – Transparency data analytics in Life Sciences in 2016
- CBI Transparency Conference – Transparency data analytics in Life Sciences in 2015

## **(Robertha) Fleur Callender**

Global DEI Manager – Ecosystems & Community

**Future Grid role:** DEIA Lead

[Robertha.callender@nationalgrid.com](mailto:Robertha.callender@nationalgrid.com)

### **EDUCATION:**

- BS, Organizational Leadership, Nyack College, NY, 2014
- AAS, Art and Advertising Design, New York Technical College, NY, 2007

### **TRAINING:**

- Paralegal Certification, Brooklyn College, NY, 2010
- The Partnership, Fellows Program, 2021

### **PROFESSIONAL EXPERIENCE:**

#### National Grid (2012 – Present)

- Global DEI Strategic Support Manager, Community & Diversity Ecosystems - Align and coordinate with external best practices (global and regional) to ensure all DEI efforts are consistent, timely and aligned to both our internal Global ambitions and cutting-edge industry best practices. Lead on initiatives to increase National Grid's positive influence of DEI efforts with various external partnerships, social and environmental justice groups, suppliers, contractors, and channels to enhance impact and reach. Partner with Supplier Diversity, Community Relations, Corporate Giving, Procurement, and other National Grid teams to ensure external partnerships are invested in DEI best practices. Collaborate and build partnerships with other externally facing National Grid Teams to impact a step-change in strategy, equity, and results. Partner with Talent Team to impact the diversity, equity, and inclusion of our talent pipeline. Identify, evaluate, and make recommendations for National Grid's impact of equitable and inclusive practices for our customers and the communities we serve.
- Supply Chain, Corporate Social Responsibility, Senior Specialist - Manage initiatives to support the procurement team to meet diversity goals and commitments, and recruit and drive efforts around onboarding diverse suppliers in the supply chain. Manage initiatives to support the procurement team under our human rights and sustainability commitments. Manage external stakeholder engagement and sponsorships with

industry related organizations. Work with Executives and managed Corporate Social Responsibility (CSR) Ambassadors to align with CSR strategies and goals. Execute strategies to integrate sustainability and supplier diversity into the strategic sourcing process. Design and manage quarterly reports showing diversity trend analysis, RFP inclusion and cost savings. Serve as point of contact for potential suppliers and coordinate Supplier meetings to engage green and diverse suppliers and connect them to appropriate buying personnel. Provide quarterly data analytics and trend reports on supplier diversity performance. Identify qualified diverse and local Prime suppliers to embed into their supply chains opportunities. Conduct quarterly Category Managers Operations Review. Coordinate internal supplier diversity events for diverse suppliers and procurement team. Manage US participation of the Carbon Disclosure Program.

Weil, Gotshal & Manges, LLP (2006 – 2007)

- Diversity Specialist - Facilitate and manage firm-wide diversity and inclusion training. Manage firm's diverse charitable contributions and engage with employee resource groups to develop and institutionalize programs and activities on diversity and inclusion. Develop marketing and educational materials reflecting firm's diversity initiatives. Manage and maintain diversity training database and track surveys on diversity topics. Prepare manuals, reports, proposals, and other documentation to reflect diversity goals.

**PROFESSIONAL MEMBERSHIPS:**

- Volunteer member of the International Business & Diplomatic Exchange (IBDE), Equality, Diversity, and Inclusion Advisory Group, no compensation received.
- Volunteer member of the Women's Roundtable Action Platform TT (WRAP TT), Executive Board Member, no compensation received.
- Volunteer member of the American Association for Blacks in Energy (AABE), Chair - Membership Committee, no compensation received.
- Volunteer member of the New York Metropolitan Area Chapter, AABE (NYMAC) – Executive Board Member, no compensation received.
- Volunteer member of the National Grid Association for Black Professionals (ABP), Chair - Professional Development, no compensation received.

## Savita Desai

Principal Project Manager – IT Projects

**Future Grid role:** DEIA Lead

Savita.gupta@nationalgrid.com

### EDUCATION:

- Bachelor's in Commerce, Delhi University, India 1994

### TRAINING:

- Higher Diploma in Software Engineering, APTECH, India 1996

### PROFESSIONAL EXPERIENCE:

#### National Grid (2019 – Present)

- Managing IT projects to provide business value including establishing project charter, securing funding, resources. SOW development for technology vendor, with participation from procurement, commercials, security and product/ project team to get the implementation right. Identify and build risk mitigation plans and other controls based on PMO processes for awareness and decision authority. Efficiently manage and maintain financial records for project budget, forecasts, accruals, expenditure and billing

#### IBM (2011 – 2019)

- Successfully manage IT projects from conception through implementation and maintenance with large geographically distributed teams. Includes development and maintenance of project schedule, cost and resource estimation, maintaining risks and issues and reporting to senior management on project progress

## **Amanda C. Downey, DM, MBA**

Vice President, Strategy Development and Partnerships

**Future Grid role:** Workforce Development Lead

[amanda.downey@nationalgrid.com](mailto:amanda.downey@nationalgrid.com)

### **EDUCATION:**

- Master's of Laws (LLM), Banking, Corporate, and Finance Law, Fordham University School of Law, NY
- Doctor of Law (JD), Texas Southern University, TX
- Master's in Business Administration, Franklin University, OH
- Bachelor's of Science, English Education, Bowling Green State University, OH

### **TRAINING:**

- License to Practice Law in New York, New York State Bar Association
- License to Practice Law in Texas, State Bar of Texas

### **PROFESSIONAL EXPERIENCE:**

#### National Grid, 2009 - Present

- Vice President, Strategy Development and Partnerships – responsible for strategy, governance, and management for effective delivery of transition services to PPL, which acquired National Grid's Narragansett Electric Co. Responsible for developing and executing the company's first-ever workforce development strategy to close the skills and diversity gaps in our New England workforce.
- Vice President, Business Planning and Performance - responsible for Strategic Planning, Business Performance Management, Risk Management and Regulatory / Corporate Compliance.
- Other leadership roles include Strategy and Compliance, Gas Capital Delivery Complex Projects; Strategy and Performance Management, FERC Regulated Business; and she served as Executive Advisor to the EVP US Regulation and Pricing
- In-house counsel - supported FERC regulated businesses in NE and NY and served as lead in-house counsel for the company's FERC audits and investigations.

### **PROFESSIONAL MEMBERSHIPS:**

- Voluntary member of the American Association of Blacks in Energy (AABE®). A national, non-profit organization comprised of energy professionals dedicated to ensuring the

input of African Americans and other minorities into discussions and the development of energy policy, regulations, R&D technologies, and environmental issues. She formerly served as the AABE Northeast Regional Director and was a member of the AABE Board of Directors.

- Voluntary Co-founder and former president of the Greater Boston Chapter of AABE, a local non-profit established to further AABE's mission in the Greater Boston area and build and maintain a pipeline of people of color to enter the energy industry.
- Voluntary member of the Board of Trustees for Boston Green Academy, a Horace Mann charter school
- Voluntary member of the Engineering Advisory Board at the University of Massachusetts–Boston
- Voluntary Board member of Browning the Green Space Board

## Jean Dubois

Enterprise Domain Architect, Electric

**Future Grid role:** Substation Edge - Computing Lead

[jean.dubois@nationalgrid.com](mailto:jean.dubois@nationalgrid.com)

### EDUCATION:

- Master's of Science, Chemistry, Rensselaer Polytechnic Institute, 1978
- Bachelor's of Science, Chemical Engineering, Ecole De Chimie De Toulouse, 1976

### PROFESSIONAL EXPERIENCE:

#### National Grid (2020 – Present)

- Enterprise Domain Architect - Enterprise Architect/Electric Domain Architect reporting to the CIO. Responsible for managing all aspects of architecture governance for major programs and related solutions such as MV90, FCS, ADMS, AMI and DERMS. Thought Leadership and CTO responsibility for the introduction of digital technologies and agile methodologies. Manage the integration designs of key operational platforms such as DERMS with ADMS, Load & Generation Forecasting, and AMI-to-OMS. Lead technology partnerships with major grid operations vendors such as L+G, ABB, and OSIsoft. Member of the technical due-diligence board for NG Ventures.

#### Accenture (2018 – 2020)

- Senior Principal Consultant, Technology & Consulting, Utilities - Product Owner and Project Lead for major architecture and agile delivery of innovative technology projects in IoT, Analytics, Telecommunications, 3D situational awareness, and others. Specialized in domain/solution architecture with innovative technologies, agile project management, strategic/phase 0 consulting, vendor/product evaluation, and technology asset development. Advised on critical utility OT/IT implementations related to AMI/AMO, DER, field operations, and outage management.

#### Verizon (2008 – 2018)

- Engineering Group Manager, Emerging Services Lab - Managed worldwide technology evaluation, product definition and trials for the deployment of new services to multinational corporations, Utilities and Strategic Partners.



## John Franklin

Director, Network Ops. Digital Delivery and ADMS

**Future Grid role:** Enhanced FLISR-DER Integrations Lead

[John.franklin@nationalgrid.com](mailto:John.franklin@nationalgrid.com)

### EDUCATION:

- MBA, Concentration in Finance/Economics, Assumption College – Worcester, MA, 2013
- Bachelor's in Business Management, Becker College – Worcester, MA, 2008  
Magna Cum Laude
- Associate, Electrical Engineering Technology, Vermont Technical College – Randolph Center, VT, 1999

### PROFESSIONAL EXPERIENCE:

#### National Grid (2004 – Present)

- Director, Network Ops. Digital Delivery and ADMS (2020 – Present) - Lead direct and matrix teams responsible for development and implementation of a suite of OT solutions and platform systems supporting the digitalization and transformation of electric network operations for National Grid's NY and NE regions with a focus on pairing technology with process and people to ensure fit and adoption to meet longer term strategy.
- Manager, Grid Mod Advanced Distribution Management System Project (2018 – 2020) - Manage scoping, development, design, reporting, and implementation of the ADMS platform program for NY and NE regions. Contributor to MA Grid Mod, NY Rev/DSIP, RI GMP
- Manager/Coordinator, Transmission Outage Coordination (2014 – 2018) - Transmission system load and supply modeling and contingency analysis; coordinate transmission outages to support capital build and generation interconnections with ISO-NE and other regional LCC's in accordance with Bulk Electric System operations procedures, FERC and NERC compliance.
- Lead Coordinator, Distribution Outage (2006 – 2014) - Creation of complex planned substation/line/feeder level system reconfigurations that comply with company safety and work procedures; interconnection and operation of PV and other distributed generation (DG / DER)
- System Operator, Sub-transmission/Distribution System (2004 – 2006) - Responsible for daily control room processes to safely and efficiently isolate faulted sections of the

electrical system for emergency and planned work; perform emergency storm restoration; crew management; outage dispatching and response

**PROFESSIONAL MEMBERSHIPS:**

- Volunteer member of the National Engineering Honor Society

## William F. Jones, Jr.

Director, New England Transmission & Distribution Grid Modernization - Electric Asset Management and Engineering

**Future Grid role:** FLISR Deployment SME

[William.jones@nationalgrid.com](mailto:William.jones@nationalgrid.com)

### EDUCATION:

- MBA Concentration in Computer Science, Bentley University, MA, 1995
- Bachelor's of Science in Management and Accounting Information Systems Concentration, Babson College, MA, 1990

### PROFESSIONAL EXPERIENCE:

#### National Grid (2013 – Present)

- Director, Electric Asset Management & Engineering – NE T&D Grid Modernization (2018 – present) - Responsible for delivering a portfolio of grid modernization investments across our New England electric distribution and transmission business. These investments include a new advanced distribution management system (ADMS), Distributed Energy Resource Management System (DERMS), expanded operational telecommunications infrastructure, distribution automation, volt var optimization (VVO), and IEC61850 digital substation technologies. Lead our second Massachusetts Grid Modernization filing through to approval of allowances for \$336M over four years.
- Director, New Energy Solutions - NE and FERC Solutions Delivery (2016 – 2018) - Responsible for delivering a portfolio of innovative customer solutions in Massachusetts and Rhode Island. These include a comprehensive smart grid and volt var optimization pilots, pending electric vehicle programs, utility-owned solar and energy storage projects, demand response, non-wires alternatives, and progressing Grid Modernization efforts. Led our Massachusetts Grid Modernization filing through to approval of allowances for \$82M over three years. Delivered 35MW utility owned solar portfolio representing over 30 sites for an investment of over \$140M. Delivered a Dept. of Energy program for the construction and study of 1MW vanadium flow batteries at two locations
- Director, Smart Energy Solutions – Network Strategy (2013 – 2016) - Lead the company's smart grid effort to deliver a pilot implementation in the city of Worcester, MA. The program is a multi-tiered complex end-to-end smart grid solution that was scoped at \$50m and was formally launched on January 1, 2015. Named a finalist for the Chairman's Award 2016 in the Innovation category.
  - Led a four-year pilot program (2015-2018), with approximately 15,000 smart meters across Worcester, MA

- Opt-out pilot with critical peak pricing and peak-time rebate pricing plans
  - Utility-controlled demand response through customer in-home technology packages
  - Multi-tiered telecommunications network: Home Area Network (HAN) – Zigbee and WiFi; Local Area Network (LAN) – RF Mesh and cellular; Wide Area Network (WAN) – WiMAX and cellular
- Successfully constructed, integrated and commissioned more than 180 individual grid devices for the Pilot. These devices demonstrated the following capabilities: Advanced distribution automation (“ADA”) technology for sectionalizing protection equipment that is automated and controlled in a coordinated manner, to minimize the effects of outages; Advanced capacitor control (“ACC”) technology for coordinated control to reduce losses, reduce peak and average demand and improve power factor and voltage performance; Advanced grid monitoring (“AGM”) technology to monitor loading on capacity bottlenecks, provide improved inputs into system planning activities, develop “real time” ratings.

## Saken Khokhar

Director, Sustainability and Supplier Diversity

**Future Grid role:** Supplier Diversity Lead

[saken.khokhar@nationalgrid.com](mailto:saken.khokhar@nationalgrid.com)

### EDUCATION:

- Master's in Business Administration, Babson College, MA, 2012
- Bachelor's of Science, Business Administration, Northeastern University, MA, 2006

### PROFESSIONAL EXPERIENCE:

#### National Grid (2022 – Present)

- Director, Sustainability and Supplier Diversity - Lead the development and implementation of the supply chain sustainability strategy and associated programs incorporating external best practice; working with the GPLT to set and agree targets, aligned to our strategic priorities and supporting the broader responsible business agenda across the organization. Design and manage frameworks and procedures to support category teams in integrating supplier diversity and sustainability into category strategies, to increase the competitiveness of the National Grid supply base and drive cost effective, sustainable sourcing options. Review and align procurement governance and policies to reflect and support wider National Grid Responsible Business commitments and ambitions. Develop, integrate and deliver procurement sustainability reporting metrics in line with regulatory requirements and corporate governance, including compilation of the Procurement greenhouse gas 'Carbon Budget' data. Work with category teams to monitor progress and performance, track success and recommend corrective actions where required. Define and lead on the relevant standards for Procurement supply chain governance, incorporating sustainability and diversity in line with agreed standards (including working towards ISO 20400; Utilities Contract Regulations; the Living Wage and Modern Slavery Act; EEIP and other regulations). Balance risks and opportunities while driving innovation and delivering tangible business benefits. Act as a subject matter expert and support cross-functional workshops to define issues, develop solutions, educate colleagues and support action plans. Identify and eliminate waste with National Grid's supply base partners to deliver meaningful value.

#### Boston Scientific (2016 – 2022)

- Senior Supplier Diversity & Sustainability Lead
- Global Category Manager

City Year (2014 – 2015)

- Global Director of Business Administration

**PROFESSIONAL MEMBERSHIPS:**

- Volunteer member of the Greater New England Minority Supplier Development Council  
– Board of Directors, no compensation received.

## **Maria Paola Marotta**

Director, Employee & Labor Relations

**Future Grid role:** Labor Engagement Lead

[maria.marotta@nationalgrid.com](mailto:maria.marotta@nationalgrid.com)

### **EDUCATION:**

- Juris Doctor, Suffolk University Law School, Boston, Massachusetts, 2009
- Bachelor's of Arts in English & American Literature, Brandeis University, Waltham, Massachusetts, 1998
- Bachelor's of Science in Psychology, Cum Laude, Brandeis University, Waltham, Massachusetts, 1998

### **PROFESSIONAL EXPERIENCE:**

#### National Grid, 2012 - Present

- Employee and Labor Relations Director – lead the function for the Company's New England management and represented workforces, which includes approximately 3000 employees covered by 15 local unions and 13 collective bargaining agreements. Lead and act as chief spokesperson for all collective bargaining negotiations; Bargained replacement collective bargaining agreements and acted a Chief Spokesperson during a 7-month lock-out of the two largest Massachusetts gas unions
- Employee & Labor Relations Manager - provided guidance and assistance to all levels of Management in employee and labor relations matters, participated in collective bargaining negotiations, resolved conflicts, and developed constructive labor relations strategies, including developing and delivering of appropriate training.

#### City of Boston, Office of Labor Relations, 2008 - 2012

- Labor Counsel - represented the City in arbitrations, Civil Service Commission and Division of Labor Relations hearings for both civilian and sworn employees, drafted legal opinions, correspondence, and policy interpretations, and provided day to day legal advice to department managers.
- Legal Intern Counsel - Drafted post-arbitration briefs and proposed decisions for submission to the Civil Service Commission and requests for findings to the Division of Labor Relations.

#### Seyfarth Shaw LLP, 2008

- Summer Associate - Conducted research and drafted legal memoranda on a wide variety of topics and analyzed company documents for compliance with state law in connection with an internal wage hour audit.



## Patrick J Moran

Principal Architect

**Future Grid role:** IT SME

[patrick.moran1@nationalgrid.com](mailto:patrick.moran1@nationalgrid.com)

### EDUCATION:

- Master's of Science in Electrical Engineering, Digital Equipment Corporation Scholar, Carnegie Mellon University, Pittsburgh, PA, 1993
- Bachelor's Degree in Electrical Engineering, University of Minnesota, MN, 1982

### PROFESSIONAL EXPERIENCE:

#### National Grid (2022 – Present)

- Principal Architect - Architected infrastructure for massive, scalable distributed energy systems within the electric grid.

#### Accenture (2019 – 2022)

- Manager - Architected and built enhancement to Android/ Waze real time storm damage tracking for Utilities using Accenture Overseas Resources. Built fire simulation and prediction engine for Fire Risk Analysis and Real Time Safety Guidance for Utilities. Design, Specification and Build AWS based pipelines for real time streaming data of AMI and business process in the Electric Utility Market

#### Bridge Energy Group (2018 – 2019)

- Systems Architect - Architected and simulated a mechanism for high speed (60Hz) data stream detection and display of distribution arcs and tree contact signatures using PXiSE technology. Modeled a sentiment extraction using t-Distributed Stochastic Neighbor Embedding (t-SNE) for social media data feed for extracting damage vocabulary and image tagging using short English phrases (tweets). Architected and implemented a drag-and-drop graphic builder for assembling AWS container objects that allow rapid deployment of solution accelerators. Architected and directed the implementation of a generic event-based visualization framework for advanced 3D and immersive-experience dashboards.

#### Aptect Corp (2008 – 2018)

- Founder, President - Business development with Areva, GSK, MIT, Sensicast, Verizon, Signal Insight and others. Architected Augmented Realty based artifact-discovery system for high reliability in harsh environment condition including on-demand content delivery system. Architected software systems for Docker-based cloud components using real-time lambda-based system for using with IoT devices in the utilities, health care and energy markets. Includes scalable real-time ground truth reputation data analytics. Implemented and validated requirements for energy management and control of large-scale power grids. Provided technical customer support for sales teams including training and live demonstrations.

## **Elisabeth Morgera**

Senior Project Manager – Advanced Metering Infrastructure (AMI) Customer, Community and Regulatory Engagement

**Future Grid role:** AMI HES & MDMS SME

[elisabeth.morgera@nationalgrid.com](mailto:elisabeth.morgera@nationalgrid.com)

### **EDUCATION:**

- Bachelor's of Science in Education, University of South Dakota, Vermillion, SD, 1990

### **PROFESSIONAL EXPERIENCE**

#### National Grid (1990 – Present)

- Senior Project Manager, Advanced Metering Infrastructure (AMI) Department - Customer, Community and Regulatory Engagement Team.  
Currently responsible for Customer Engagement which involves the integration of National Grid's Customer Engagement Plan including collaborative design of the overall customer experience and working with internal teams to operationalize.
- Senior Project Manager, Worcester Smart Energy Solutions Pilot  
Responsible for overseeing all customer facing facets of the pilot, including coordination of demand response activities. Worked closely with all internal and external stakeholders to wind down program activities at end of pilot period, but still continue to manage the AMI meters, infrastructure and associated vendors.

### **PROFESSIONAL MEMBERSHIPS:**

- Voluntary member of Peak Load Management Alliance (PLMA)
- Volunteer member of National Grid Veteran's Employee Resource Group

## Peter Shattuck

Principal Security Architect – Business Cyber Security Department

**Future Grid role:** Security

[peter.shattuck@nationalgrid.com](mailto:peter.shattuck@nationalgrid.com)

### EDUCATION:

- Bachelor's in Applied Science in Information Technology, University of Phoenix, AZ, 2007

### PROFESSIONAL EXPERIENCE:

#### National Grid, 2013 – Present

- Principal Security Architect – Business Cyber Security Department - Engage with business and IS heads of Electric and Gas Management Systems, Transmission Asset Management, & Smart Grid/Grid Modernization department addressing all project related security requirements, testing and validation. Tasked with developing standardized deliverables and security-based guidelines to be utilized by the entire Security Team as they engage the business through the project cycle ensuring security requirements are properly identified, met & that other metrics in terms of complexity, risks & technologies used are captured & that security is "baked in" to every project utilizing corporate standards, federal/state regulations [ CEIL, NERC-CIP ] as well as any risk assessments pertinent to the project

#### CDI Corporation contracting to IBM, 2012 -2013

- Enhanced Security Architect- Responsible for the day-to-day duties as security architect from several financial services customers of IBM ensuring security and regulatory compliance [ SOX ] across the customer's IT estate as well as testing new system builds and newly purchased applications that meet those same stated requirements before deployment as well as generate daily deliverables required by the customer's Internal Audit departments

## Demetrios Vasiadis

Engineering Manager– Future of Electric Department

**Future Grid role:** IT Engineering SME

[Demetrios.Vasiadis@nationalgrid.com](mailto:Demetrios.Vasiadis@nationalgrid.com)

### EDUCATION:

- Bachelor's of Science, Computer Science, SUNY Stony Brook, Stony Brook, NY, 2003

### PROFESSIONAL EXPERIENCE:

#### National Grid (2022 – Present)

- Engineering Manager - Engineering manager for the Future of Electric department. Primary areas are the Intelligent Substation, NES Data, and Operational Data Bus

#### 340 Basics (10/2022 – 12/2022)

- Director of Engineering - Helped build a team of worldwide engineering talent in Greece, Cyprus, India, and the US. Architected a new distributed platform to solve legacy code issues while implementing new platforms. Create data governance and standards workflows.

#### ATC Research (4/2022 – 10/2022)

- Head of Engineering - Helped build a team of worldwide engineering talent to create the MVP of the platform. Helped create coding standards to ensure a proper development flow. Designed the architecture of the platform to optimize resiliency and minimize costs. Created all data workflows to ensure proper data integrity. Optimized cost analysis to ensure technology budgets were kept in check. Created standards for documentation to ensure reliability and ease of onboarding.

#### Conde Nast (2002 – 4/2022)

- Director of Digital Asset Technology - I have mentored a team of diverse product managers, engineers, business analysts, and designers. Currently leading a team of over 60+ direct reports. I have extensive experience steering cross-functional agile teams in collaboration with product, design, BI, and support. Define consistent engineering standards and practices and reporting metrics. Modernizing the reporting paradigm to help Conde Nast migrate to a digital-first content company. Defined technology plans & roadmaps to address the gaps between the current and future state with migration and

mitigation in mind. Principal Architect Universal Lineup - A lineup management tool for worldwide collaboration on content creation built using a no-code solution with Airtable as the data store. Increased efficiency of production teams by 40%. Principal Architect of Intake Portal - A Dropbox replacement that integrates with the Universal Lineup and various downstream systems. Built using React, .Net Core APIs, and MSSQL. Lowered costs of 3rd party data stores by 80%. Principal Architect of Montrose - Conde Nast's Digital Asset Management system utilizing MarkLogic's NoSQL datastore and a React front end. This DAM maintains over 9 million assets on a 1 PB file store (Nexsan). Principal Architect for the implementation of Rightsline, including migrating data from legacy systems including Microsoft Access, MSSQL, and hardcopy files. Increased throughput of the rights team by 75%. Principal Architect of The Registry - An asset registry platform that provides a cryptographically secure chain of custody platform for all content that flows through the various platforms built using React, Node.js, and Amazon QLDB (managed blockchain). Principal Architect for Workflow Engine - Facilitates communication between Conde Nast and our partners. Built using Java and Spring. Principal Architect for DAM Optimization Engine - Multi-threaded processing engine built using C#. Specializing in media manipulation and transcoding. Integrated with various AWS ML services. Product Manager for various Replica Archive projects including Vogue, Vanity Fair, GQ, and Architectural Digest Pro products.

## Justin M. Woodard PE

Principal Engineer, Grid of the Future

**Future Grid role:** Business SME

Justin.Woodard@nationalgrid.com

### EDUCATION:

- Master's of Science in Electrical and Computer Engineering - Concentration in Power Worcester Polytechnic Institute, MA, 2009
- Graduate Certificate in Power Systems Management, Worcester Polytechnic Institute, MA, 2007
- Bachelor's of Science in Electrical and Computer Engineering - Graduated with distinction, Worcester Polytechnic Institute, MA, 2006

### TRAINING:

- Licensed Professional Engineer in Massachusetts (MA PE License No. 49017)
- Design thinking bootcamp from Stanford Graduate School of Business – 2019
- Optimal product management and product marketing from the 280 Group - 2020
- Authorized System Operator on National Grid's Clearance and Control List
- OSHA 10- hour General Industry Safety and Health

### PROFESSIONAL EXPERIENCE:

#### National Grid (2009 – Present)

- Principal Engineer- National Grid, DER product growth Customer Group - Set strategy and vision for distributed energy innovation efforts. Develops new energy products and services that deliver increased savings, comfort, control, information, and other benefits to customers while accelerating the adoption of advanced technologies and leveraging distributed resources for the benefit of our energy networks. Routinely cited by senior leaders as an example of an effective leader that can provide alignment and change management, cited by team as key for fostering collaboration and efficiently delivering results. Mentored and lead a cross-functional team to develop a cutting-edge flexible interconnection program (Active Resource Integration) that could increase solar penetration without an increased interconnection cost.
- Principal Engineer, New Energy Solutions -Lead a cross-functional team of direct and indirect reports to deliver 16MW of solar projects over 18 sites on time and within a

\$100M Budget. This includes program inception, regulatory filings, execution and project close out. This program grew National Grid's annual revenue from Company owned solar by \$10M. The principal technical expert for the development of National Grid's regulated innovation group oversees the end-to-end product lifecycle, including new products development and testing regulatory compliance, marketing, sales and delivery. Strong focus on continuous improvement, eliminating redundancy, and thinking commercially. Lead an application on successful grant proposal to MassCEC to support additional energy storage program development. Manage a large group of external partnerships (e.g., EPRI, MassCEC, DOE) to foster cross-functional collaboration. Developed an energy storage assessment for a grid-scale market for investment opportunities. Establish objectives, structure, and KPIs; evaluated team performance; mentor team on development plans. Create, forecast and manage budgets for the department.

- Lead Engineer, Distributed Resources and Power Quality - Provide technical support for all aspects of renewable energy and energy efficiency project(s) including research; communications; team leadership; approval of scope, budget adherence, cost estimate, schedule and resource plan; schedule parameters / risk management; compliance with environmental, safety and National Grid standards and policies; engineering and design deliverables; contracted services and administration. Project includes the completion 6 solar generation sites with a capacity of 5MW. Power Quality - Conducted numerous power quality and neutral to earth voltage investigations. Responsible for problem assessment, monitoring, diagnosis, recommendations and implementation of solutions. Effectively manage customer expectations, especially in highly sensitive scenarios. Provide support and engineering oversight for National Grid's electrical vehicle initiative. Analyze and document potential non-wires solutions, such as demand response and distributed generation that may allow for transmission and distribution capital investment deferral.

#### **PROFESSIONAL MEMBERSHIPS:**

- Volunteer member of the IEEE Institute of Electrical and Electronics Engineers, Senior Member, no compensation received.
- Volunteer member of the FIRST: For Inspiration and Recognition of Science and Technology no compensation received.



## Brian Yung

Principal Engineer, Integrated Planning and Solutions

**Future Grid role:** Business SME

[Brian.yung@nationalgrid.com](mailto:Brian.yung@nationalgrid.com)

### EDUCATION:

- Master's of Science in Electrical & Computer Engineering, Georgia Institute of Technology, Atlanta, GA
- Bachelor's of Science in Electrical & Computer Engineering, Cornell University, Ithaca, NY

### TRAINING:

- Distributed Generation and Energy Storage Applications – Siemens PTI
- Reactive Power Compensation & Voltage Control – General Electric
- PI User Training – OSIsoft
- Foundations of Leadership – General Electric

### PROFESSIONAL EXPERIENCE:

#### National Grid (2008 – Present)

- Principal Engineer - Responsible for executing the Company's electric business strategy by leading business transformation efforts, demonstration projects and digital product development that supports the New York business unit and specifically focused on energy storage, DER management and distribution system operator (DSO) capabilities in a manner that aligns with federal, state, and corporate goals.
- Principal Engineer - Responsible for developing the Company's electric business strategy roadmap for energy storage and DER management for both New York and Massachusetts jurisdictions in a manner that aligns with federal, state, and corporate goals. Coordinate with multiple internal and external stakeholders including regulatory, engineering, business development, planning and system operations.
- Lead Engineer - Responsible for developing, evaluating, and implementing new processes and projects related to the integration of distributed energy resource (DER) such as energy storage, non-wire alternatives, demand response, and distributed generation (DG) as distribution planning solutions. Coordinate with internal

departments in the end-to-end implementation of DER as planning solutions such as Control Center Operations, Controls and Integration, and Project and Program Management teams. Represent National Grid in the NYISO-DSO working group, specifically addressing needs for utility and bulk system operator coordination in response to FERC Order 2222.

#### NYISO (2017 – 2018)

- Senior Market Design Specialist - Responsible for developing market rules for distributed energy resource (DER) integration with regards to metering, operational coordination and simultaneous participation in wholesale and retail markets. Regularly engaged with regulatory and technical representatives from ISO stakeholders, specifically DER developers and distribution utilities, to discuss use cases and wholesale market opportunities for DER aggregations.

#### General Electric (2014 – 2017)

- Lead Systems Engineer - Member of a multifunctional team focused on generating technical sales proposals and project execution of energy storage systems. Collaborated with project developers on operating strategies and stacking use cases of grid connected energy storage. Frequently engaged with ISO/RTOs and distribution utilities on interconnection, SCADA and fault response requirements for energy storage systems. Managed the system integration, procurement and deployment of contracted projects. Appointed by business leader to perform studies in competitiveness, cost reduction strategies and business case for the distributed energy resources market.

#### Consolidated Edison of New York (2013 – 2014)

- Distribution Engineer - Supported existing distribution infrastructure and executed two DOE-funded smart grid demonstration projects: an advanced metering project and a SCADA-enabled sectionalizing switch project. Supervised union crews and coordinated with grid operators when performing fieldwork near energized equipment.

#### **PROFESSIONAL MEMBERSHIPS:**

- Volunteer member of the IEEE Power & Energy Society, no compensation provided
- Volunteer member of the Electric Power Research Institute Utility Technical Advisor for P174C DERMS, no compensation provided