## BUSINESS AND TECHNOLOGY STRATEGIES (BTS)

### SUBJECT MATTER EXPERTS

*Jim Spiers, Russell Tucker, Craig Miller, Paul McCurley, Venkat Banunarayanan, Paul Breakman and Keith Dennis can address questions on all topic areas.*

### Analytics, Resiliency & Reliability

**David Pinney**
- Dynamic and Static Modeling
- Volt-VAR Optimization, Solar, DR, and Storage
- Planning Models and Innovative Co-op Deployments
- Cost and Engineering Analysis of Distributed Energy Resources
- Software Development and Database Design

### Distributed Energy Resources

**Brian Sloboda, Michael Leitman, Jan Ahlen, Keith Dennis, Maria Kanevsky**
- Beneficial Electrification
- Measurement and Verification
- Pre-Pay Programs
- Electric Vehicles
- DSM Business Models (direct load, behavioral, time of use rates)
- Utility Connected Home
- Role of DER in meeting Environmental Objectives

**Madelyn Roche**
- Co-op Distribution Data
- G&T Co-op Data
- G&T Equity and Capex Survey

**Michael Leitman**
- Demographic Analysis
- Co-op Economies & Development
- Policy & Regulatory Analysis

**Broadband Infrastructure Development**

**Paul Breakman, Russell Tucker**
- Business models and solutions
- Technology plans, roadmaps
- Broadband Due Diligence
- Resources and tools
- Advanced communications infrastructure solutions
- Economic analysis

**Cybersecurity**

**Cynthia Hsu**
- Rural Cooperative-Cybersecurity Capabilities Program
- Self assessments and risk assessments
- Capacity building
- Research and development projects

**Moin Shaikh**
- Research and development projects
- Frameworks and best practices
- Cybersecurity for Industrial Control Systems
- Technical and policy issues

**Tony Thomas**
- Cybersecurity for Industrial Control Systems
- Cybersecurity and MultiSpeak Standard

**Patti Metro**
- Cybersecurity and Reliability Standards

**Cynthia Hsu, Moin Shaikh, Adaora Ifebigh, Lauren Khair**
- Cybersecurity training and outreach

**Generation, Environment & Carbon**

**Dan Walsh**
- Asset Management
- Carbon capture & utilization
- Multi-pollutant control technologies for power plants
- Impact of cycling on power plants
- Integrated Test Center—Carbon (ITC-C)
- Fast and flexible generation options
- Utility scale energy storage
- Natural gas-fired combined cycle gas turbines
- Utility scale wind and solar energy

**Robert Harris**
- DER Interconnection and Operation Standards
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**Generation, Environment & Carbon cont.**
Lauren Khair, Michael Leitman
- EIA-860: Annual Generator Report Data
- EIA-861: Annual Electric Power Industry Report Data
- EIA-923: Power Plant Operations Report Data
- Co-op Generation Resources

Katherine Loving
- Geographic Information Systems (GIS)
- Spatial Data Analysis

**Joseph Goodenbery**
- Economic Modeling
- Policy Impacts
- Levelized Cost of Energy

**Human Capital**
Delaine Orendorff, Ginny Beauchemin, Leigh Taylor, Beth Wray
- Executive Coaching
- Vision/Mission/Values Development
- Strategic Planning/Operational Action Planning
- Culture Alignment
- Organizational Development
- Leadership Development
- Change Management
- Developing High Performing Teams
- Training & Development Programs
- Succession Planning
- Career Paths

**Executive Search**
Leigh Taylor, Beth Wray, Ginny Beauchemin, Delaine Orendorff
- Executive and Senior Staff Searches
- Leadership Competency Model
- Interviewing
- Goal Setting and Appraisals
- New CEO Transitions
- Executive Coaching
- Orientation and Onboarding Analysis
- Leadership and Talent Assessments
- Resume/Interview Coaching

**Governance**
Kim Christiansen, Ginny Beauchemin
- Governance Assessment
- Enterprise Risk Management
- Policy and Bylaw Review
- Director Compensation Benchmarking

**Resource Adequacy & Markets**
Paul McCurley, Patti Metro
- Resource Adequacy
- Power System Planning and Operations
- Electricity Markets
- RTOs/ISOs
- Reliability

**Human Capital**
Delaine Orendorff, Ginny Beauchemin, Leigh Taylor, Beth Wray
- Executive Coaching
- Vision/Mission/Values Development
- Strategic Planning/Operational Action Planning
- Culture Alignment
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- Change Management
- Developing High Performing Teams
- Training & Development Programs
- Succession Planning
- Career Paths

**Sourcing Strategies**
Paul Breakman, Lauren Khair
- Sourcing and procurement solutions
- Approaches and methods
- Technology considerations
- Lessons learned, case studies

**Safety Performance**
Bud Branham, Henry Cano
- Transformational cultural change
- Culture assessment
- Safety improvement planning
- Targeted safety improvement initiatives

**Market Research**
Mike Sassman, Ginny Beauchemin, Beth Wray
- Consumer and Employee Surveys
- Business to Business Surveys
- Actionable Data Analytics
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Transmission & Distribution

Venkat Banunarayanan
- Energy Storage Systems Technology
- Impacts of High-Penetration Solar
- Smart Grid Demonstration Project
- Substation of the Future
- Technology Developments – T&D Systems
- DER Economics and DSO Considerations
- Unmanned Aerial Vehicles
- Conservation Voltage Reduction
- Distribution Optimization

Tony Thomas, Aliya Alimujiang
- Product Quality and Reliability Benchmarking
- Utility Automation Systems
- Communication Networks
- MultiSpeak®
- Cyber Security for Industrial Control Systems

Patti Metro
- NERC Regulations and Standards
- FERC/NERC Grid Reliability Standards, Compliance and Enforcement
- Rural Utilities Services (RUS) and NRECA Transmission & Distribution Engineering Committee (TDEC)
- Avian Issues
- Geomagnetic Disturbance (GMD) and Electromagnetic Pulse (EMP)

Robert Harris
- IEEE 1547—DER Interconnection
- National Electrical Safety Code
- National Electrical Code
- System Planning
- Rural Utilities Services (RUS) and NRECA Transmission & Distribution Engineering Committee (TDEC)

James Carter, Nick Klein, John Mason
- Treated Wood Poles and Crossarms
- Wood Preservatives
- Pole and other utility wood product inspections
- RUS wood product specifications
- General wood treatment processes and related business
## BUSINESS AND TECHNOLOGY STRATEGIES (BTS)

### WORK GROUPS

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